

670	27364	92836	09428	61208	74982	36498	32764	81276	01
4986	40932	70987	32123	49817	26346	81287	65491	87364	81
721	75654	55656	12737	72727	72727	91918	63473	67867	76
6723	87629	37677	32612	53498	71296	28756	18276	98716	87
7269	76329	74698	76857	98670	27601	56701	57601	73648	15
591	87364	87265	96710	27630	12673	84769	28743	98127	59
58	63298	75698	27465	87326	49876	28376	81273	98615	62
667	87432	74328	78674	29867	32867	67867	86786	43286	432
667	68768	68763	34234	34238	68768	62342	48273	48768	234
936	98432	32432	86743	43286	43286	43286	43286	43286	432
743	86743	86743	39867	32867	86743	43286	43286	43243	867
741	86743	86743	86743	86743	86743	86743	86743	86743	435
543	98798	98754	98754	98754	98754	29867	67543	67986	867
976	87698	69876	87698	69876	87612	12341	34867	86798	632
967	43298	65656	56756	56123	32143	14321	32143	14321	321
71	02787	58765	76587	58765	76587	58765	76587	58756	765
75475	26547	54365	36543	54365	36543	54365	36543	54365	543

Numbers & Oddities

a.k.a. The Spooks Newsletter

Edition #166, July 2011

Editor: Ary Boender email: ary@luna.nl

Check for previous newsletters, info, sound samples and databases also:

NUMBERS & ODDITIES <http://www.numbersoddities.nl>

<http://www.ary.luna.nl>

SPY NUMBERS ONLINE DATABASE <http://www.spynumbers.com/numbersDB>

UTILITY DXERS FORUM (UDXF) <http://www.udxf.nl>

The National Archives and Records Administration has released several nice and interesting films. Not really numbers related but still interesting for the radio enthusiasts. Check these out:

ARC 40119, LI 226-B-6121 - STRATEGIC SERVICE TRANSMITTER-RECEIVER NUMBER I (SSTR-1) –

DVD Copied by Ann Galloway. Joint Chiefs of Staff. Office of Strategic Services. Field Photographic Branch. (01/04/1943 - 10/01/1945). Instructional Film: Describes the radio transmitter-receiver unit used during World War II. Explains compactness and ease of concealment, and outlines operations in detail: selection of electrical outlet, battery, or combination of both as power unit; antenna, assembly parts, installation, frequency determination and receiver operation; parts installation, attachment of crystal equipment and transmitter operation.

<http://www.archive.org/details/gov.archives.arc.40119>



HIGH FREQUENCY AS A WEAPON

Department of Defense. Department of the Air Force. (09/26/1947)

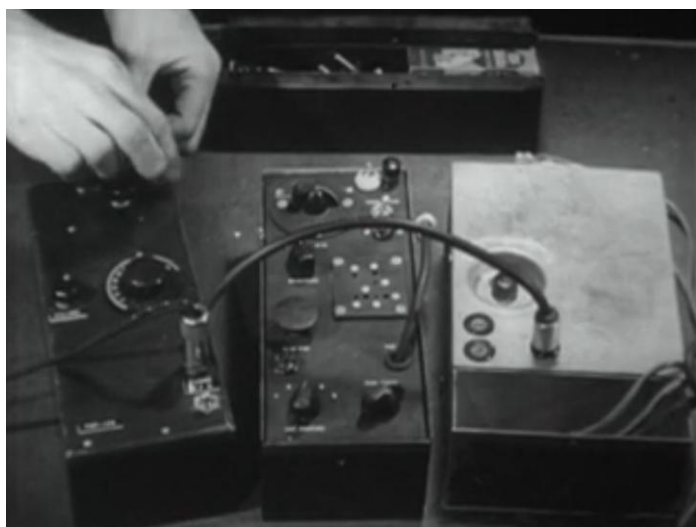
ARC Identifier 64890 / Local Identifier 342-USAF-13277. Summary: Coverage of high-frequency radio waves for radar jamming used by German military in WW II to interfere with bombing accuracy and to blind British radar when the cruisers Scharnhorst and Gneisenau escaped from the harbor of Brest and ran the English Channel to the North Sea.

<http://www.archive.org/details/gov.archives.arc.64890>

PIN 28384 - RADIO TELETYPEWRITER AN/GRC-46.

Design, capabilities and operations for CW, Voice and Teletypewriter communications; operator maintenance; various models of set and related Teletypewriter sets and equipment.

<http://www.archive.org/details/gov.dod.dimoc.28384>



The US National Archives and Records Administration has also declassified an interesting German document about cryptography. It is called "KRYPTOGRAPHIK - Lehrbuch der Geheimschreibekunst (Chiffrier- und Dechiffriertechnik) in Staats und Privatgeschäften". This work was among the German government records that were seized by U.S. forces after the defeat of Germany in World War II, and it found its way into U.S. intelligence files. I have uploaded the file to the N&O website.

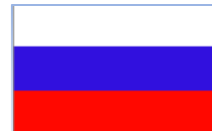
A collection of interesting intelligence related documents can be found on the Agentura website:
<http://www.agentura.ru/english/library/>

This is a nice link for the Sangean 909 owners
<http://www.acidplanet.com/components/embedfile.asp?asset=322668&T=4325>

The Numbers & Oddities website is currently under construction. Besides the new look and feel I will also update the information and new profiles of MX, M21 and the Chinese stations in August. Please let me know if the site is not working or if you find broken links. <http://www.numbersoddities.nl>

VOICE STATIONS

E06



The transcripts were submitted by Dauntless and Spectre. Dauntless also sent me a recording of E06 which can be downloaded from the N&O website.

9061 kHz, 0030/0130 UTC, 16-07
9061 kHz, 0030/0130 UTC, 17-07

759 (R3)
168 168 30 30
68140 51707 46738 89738 51163 99989 64172 19771 41159 66557
11004 29504 66461 64552 77061 59022 37625 02643 13677 20717
42441 87613 65004 85283 76212 73208 90901 30448 52948 26066
168 168 30 30
00000

9061/7844 kHz, 30-07
9061/7844 kHz, 31-07

759 (R3)
841 32
79160 09061 69976 79204 11514 43472 78209 65988 97260 50001
93075 17737 74619 87579 23470 25083 02582 55344 60945 00168
88716 00392 62259 08089 40115 41263 10510 91396 79670 18080
09612 61111
841 32
00000

9061/7844 kHz, 0030/0130 UTC, 02-07

759 (R3)
682 30
22702 62511 34451 30224 72485 40932 94680 75006 29701 69216
25546 68665 55107 84045 49900 97608 16457 77762 72386 74780
02081 85073 06757 44981 91226 53459 21635 82465 85811 20704
682 30
00000

5731 kHz, 2130 UTC, 08-07
5731 kHz, 2130 UTC, 22-07

315 (R3)
289 15
13398 04821 47382 47646 37246 38194 03826 71143 28276 94381
28832 94771 36524 90388 76153289 15
00000

9061/7844 kHz, 0030/0130 UTC, 09-07

759 (R3)
804 31
77495 90124 05048 17374 86735 93026 51017 44283 05316 99731
21821 25985 58777 24539 96925 74732 57986 44702 52232 93143
06623 06630 34794 66570 56816 72801 41164 73545 55112 20344
54027
804 31
00000

E06 9061/7844kHz 0030/0130 UTC, 23-07

759 (R3)
206 31
42355 24774 42930 14579 13946 75406 06439 67132 69705 97836
95623 64162 32372 57078 58306 72433 14344 82181 23122 60369
35213 32044 31072 55075 15277 42404 79804 00407 22480 88959
22231
206 31
00000

E07



Transcripts submitted by
Spectre and Danix

E07: 13468/11454/10126 kHz,
1700/1720/1740 UTC, 03-07

414 1 833 42
69195 63486 05879 28716 75268 44751 14669 03050 26441 16119
71034 69267 52525 97292 79113 60899 84565 36281 46021 84609
57113 78470 00555 51966 09002 72839 46688 61890 91098 62692
92301 57059 31625 62687 12082 05219 70731 06377 04851 53293
04936 84527
000 000

E07a: 8173/7473/5773 kHz
2000/2020/2040 UTC, 13-07

147 1 11006 451 71
98636 51931 10364 79122 52187 50634 37474 59873 01465 63594
74699 94845 80884 50503 91886 78410 30698 55798 05695 92938
63660 45565 29920 30934 17689 58417 60675 36220 33892 75302
57121 45335 01780 64180 57790 61495 21483 66785 00748 06973
11900 36941 83134 45125 29351 74972 93191 63917 63340 13510
65694 85146 72936 18465 66817 03304 71357 70553 38355 39177
61803 87742 41116 96945 22113 99260 87381 20373 36118 94222
48029
000 000

E07: 13468 kHz, 1700 UTC, 17-07

441 441 441 1
631 79 631 79
75680 37600 72912 58878 88232 91694 32087 92251 67879 66515
02484 97870 81491 87766 67393 44522 41408 74389 89642 60960
84517 0006? 75671 55354 39619 47087 15829 63665 72829 85299
22386 43561 323...
BEEP 441 441 441 1 (x4)
39619 47087 15829 63665 72829 85299 22386 43561 32386 25190
59356 31207 97432 81401 28742 02303 84915 27895 06237 76662
53203 52164 80296 49862 35442 59288 11930 97717 73344 34412
05168 52217 86036 95938 41556 28620 78936 62698 93093 11361
13118 25600 05586 55890 13544 47166 53397 34294 13120 11628
95511 76012 54289 96494 72292
000 000

E07a: 8173/7473/5773 kHz
2000/2020/2040 UTC, 27-07

147 1 33329 689 63
62624 32783 21814 05484 49766 81685 59560 04038 21778 84999
86558 69389 34792 02472 60681 45784 48839 78826 30493 65129
76979 30969 82695 19901 33637 37388 21588 35072 39663 15345
86377 52213 38483 46032 81513 27898 83282 29925 88870 43233
55627 35326 62514 77206 59923 91256 87951 31318 57812 99082
47003 67416 55941 50057 82735 75538 41694 72585 60054 22444
92195 00000 28461
000 000

E07: 14812/13412/11512 kHz,
1900/1920/1940 UTC, 04-7 & 06-07

845 1 604 30
26561 49697 31254 40456 15265 16550 05586 58269 62083 48585
25890 65974 50283 11718 70331 99024 87200 88654 25885 09862
71022 85841 40561 73357 62561 17842 26999 74758 17001 49226
000 000

E11



E11a: 4909 kHz, 1445 UTC, 06-07

282/35
23776 97194 72269 13834 98666 94439 93480 62813 02521 79108
59305 66708 28034 02005 39117 14441 71832 12046 69134 18609
55437 46030 49150 42074 75178 89610 62018 35248 55172 96346
96275 80987 48895 41356 15239

E11a: 6252 kHz, 1240 UTC, 17-07

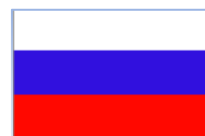
344/38
35250 49537 16811 67109 12915 13294 45366 17535 09486 22869
17986 13990 31997 38813 96770 48372 07615 80898 38397 95422
26046 83871 47855 40414 70824 04849 85826 80412 16784 70159
49520 81697 30992 29644 69261 95605 30356 70842

E11a : 8088 kHz 1730 UTC, 28-07

415/31 Attention
74819 48454 73744 05168 77117 74832 65802 30392 71046 12269
91194 27375 99531 59896 10679 73310 06188 34940 85211 41248
94064 23241 11439 55491 48380 73922 92814 50087 73152 13611
33940 Out

Transcripts submitted by
Spectre and Danix

G06



G06: 6887 kHz, 1830 UTC, 14-07 & 28-07 Transcripts via Spectre

842 973 15

29809 83671 36212 83761 03699 82372 63136 29402 84731 13566

29833 08090 79642 31652 73651

973 15

0000

S21



S21: 5373 kHz, 1742 UTC, 28-07. Transcript submitted by Spectre.

973 731 30

32887 61556 93874 40257 10738 49812 45102 61401 78279 86084

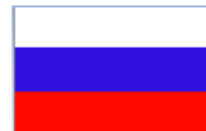
03749 87527 44243 96492 13335 80117 88538 38438 61723 85580

96010 59042 38651 79287 09346 07396 53733 13860 77570 55545

731 30

000

S28 - The Buzzer (UVB-76 / MDZhB)



A summary of the July transmissions:

4625 kHz, 0815 UTC, 06-07	MDZhB Triton 641 646 [Without five leading figures; six ending figures instead of eight] ¹⁾ A new format or a mistake? Source: RKh via RP.
4625 kHz, 1242 UTC, 07-07	MDZhB MDZhB 87754 AKMIT 9577 5683
4625 kHz, 1255 UTC, 07-07	MDZhB MDZhB 30346 SKLONNYJ 3100 6016
4625 kHz, 0812 UTC, 25-07	MDZhB MDZhB 75389 ZhITO 56 73 49 73 ³⁾
4625 kHz, 0822 UTC, 25-07	MDZhB MDZhB 50267 DITIONIT 58 00 46 81 ³⁾
4625 kHz, 0905 UTC, 25-07	MDZhB MDZhB 45472 VITIYe 56 49 27 33 SITAR 97 08 01 36 ³⁾
4625 kHz, 1205 UTC, 25-07	MDZhB MDZhB 34700 LISOHVOST 40 95 59 44 VISLYaTKKA 52 88 30 76 ³⁾
4625 kHz, 1245 UTC, 25-07	MDZhB MDZhB 34307 BIRYuZOVYJ 52 65 90 53 ³⁾
4625 kHz, 1320 UTC, 25-07	MDZhB MDZhB 04101 BIRUHA 30 30 14 83 ³⁾
4670 kHz, 0216 UTC, 30-07	Parasitic transmission ²⁾
4950 kHz, 0220 UTC, 30-07	Parasitic transmission ²⁾
4585 kHz, 0048 UTC, 31-07	Parasitic transmission ²⁾
4665 kHz, 0049 UTC, 31-07	Parasitic transmission ²⁾
4585 kHz, 1902 UTC, 31-07	Parasitic transmission
4665 kHz, 1902 UTC, 31-07	Parasitic transmission
9250 kHz various dates and times	Harmonic of 4625 kHz

1) Recording on

<http://priyom.org/media/27218/s28-4625usb-20110706-0815zapprox-msg-bywebweasel.ogg>

2) Recordings made by Dauntless are available from the N&O website. <http://www.numbersoddities.nl>

3) Recordings made by myself at <http://www.numbersoddities.nl>

Alf logged an interesting one on 5144 kHz, 0220 UTC, 8 July in CW: "XXX XXX MDZhB MDZhB 44216 SKISLYJJ eeeeeeee XXX XXX MDZhB MDZhB 44216 SKISLYJ 1226 0005".

S30 – The Pip

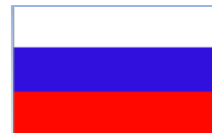


Active on its usual day (5448 kHz) and night (3756 kHz) frequencies throughout the month.

A voice message was copied by Danix: 3756 kHz, 1759 UTC, 09-07.

Message: "Dlya CIHE Zh1TP M1CE 8N8Zh Ye7PM KZI' 8MCO TUZP 5J3Shch DMC3 Kak slyshno, priyom"

S32 – Squeaky Wheel

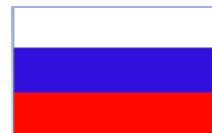


Active on its usual day (5473.9 kHz) and night (3828.9 kHz) frequencies throughout the month.

Also a message on S32 this month: 5473kHz, 1631 UTC, 25-07-2011. Copied by Danix.

Message: "Dlya Shchuka26, Podpor89, kak slyshno, kak slyshno, priyom".

V07



Token reports no less than seven V07 logs. It is quite a while ago that I have seen so many logs ☺

V07, YL, SS, 12182 kHz, USB, Sun 10/07/2011, 0720 UTC, "512"

V07, YL, SS, 12182 kHz, USB, Sun 17/07/2011, 0720 UTC, "512"

V07, YL, SS, 12182 kHz, USB, Sun 24/07/2011, 0720 UTC, "512"

V07, YL, SS, 10282 kHz, USB, Sun 24/07/2011, 0740 UTC, "512"

V07, YL, SS, 13582 kHz, USB, Sun 31/07/2011, 0700 UTC, "512"

V07, YL, SS, 12182 kHz, USB, Sun 31/07/2011, 0720 UTC, "512"

V13 – New Star Broadcasting Station

星星廣播電台 Xīngxīng guǎngbò diàntái



Frequency since 1 April: 9725 kHz

Schedules at 0500, 0600, 1200, 1300 UTC.

VC01 – Chinese Robot



Modes: USB and LSB .

The first UDXF log of the Chinese Robot was on 27-3-2000. We found the station since that date on the following frequencies: 3036, 3837, 4410, 4422, 4427, 4480, 4530, 5288, 5303, 5700, 6479, 6771, 6840, 6855, 6860, 6960, 7090, 7608, 7684, 7726, 7744, 7756, 7770, 7880, 7924, 8000, 8025, 9169, 9192, 9290, 9340, 10508 kHz.

VC01 Logs:

9192 kHz, 02-07, 0605 UTC

9192 kHz, 03-07, 0616 UTC

4422 kHz, 03-07, 1558 UTC

4422 kHz, 04-07, 1059 UTC

9192 kHz, 06-07, 0537 UTC

7744 kHz, 21-07, 0529 UTC

Like V13 hard to copy, especially in the morning.

Maybe the conditions were just not good enough.

VTN / V30

ENIGMA 2000 has assigned a designator to this station. VTN will be called “V30” from now on. I have changed the designator in the database.

V30 had a daily transmissions on 10255 kHz USB at 1600 UTC but has not been heard since 30 June. I have tried it 10x via the Hong Kong receiver without any luck. Maybe they have changed their frequency but it will be hard to find out what frequency they are using now because there is no track record of other frequencies and times.

T! writes the following about V30: *“Hello all, I recorded every day this past month for V30, and did not receive one transmission. In addition, many days I was able to be at the radio, and also use remote receivers in Japan to listen. In the past even on the few days conditions did not support me directly hearing the station here at my QTH the Japanese receivers could always hear it. The last reception I have for V30 was the day before it was designated V30, June 30, 2011. On that day it was as normal, the same 50 group message that had been being sent for the last month+, sent three times, starting at about 1601 UTC on 10255 kHz, USB. I have also recorded the 10255 kHz frequency 24 hours a day for many days trying to find a new time slot. And during the 1600 time slot I have searched for the transmission on other frequencies. So far no joy. I am not sure if V30 has changed frequencies, times, both, or just ceased operations.”*

MORSE STATIONS

MX - Russian Military beacons



The following beacons have been reported on the various cluster frequencies:

European Cluster Beacons: L, D, P, S, C, A. “P” appeared on 10872.8 on 3 July.

Asian Cluster Beacons: F, K, M

Beacon “L” appeared on 7038.2 and 8494.2. The station was first reported by the VERON Intruder Watch on 29-6 at 1800 UTC. “L” was also active throughout July. The first thoughts were that “L” transmitted from St Petersburg but so far we do not have enough bearings to support this. The station moved on 23-7 to 7041.6 and 8497.9 kHz and again on 24-7 to 7041.8 and 8497.8 kHz.

Other beacons: R – 4325.9 kHz
V – 4150 kHz

M01



M01b: 5475 kHz, 1915 UTC, 25-07

858 784 30 =
96469 59730 16669 73683 03195 46992 88400 13377 40668 14316
95218 42904 83944 43608 81401 99433 75595 64000 51458 15012
76337 62624 77213 27132 70527 22786 26022 77832 13715 15833
= 784 30
000

M01: 6434 kHz, 1500 UTC, 02-07

025 318 30 ==
10120 52365 86218 06336 80318 85664 18091 (13091) 54757 40061
67911 72476 03973 84077 23181 64404 97818 27033 27157 02408
61067 93423 85461 77343 43401 03872 63468 (53468) 43561 06045
44282 (14282) 79216
== 318 30
000

Note some mistakes in repeated groups.

M01: 5280 kHz, 1800 UTC, 28-07

025 463 30 =
38971 26450 20962 72492 95778 66131 08511 25725 86078 57837
72436 32198 25200 81523 20140 68056 60304 69930 88261 86897
56356 45676 67515 47982 37477 79343 50005 82504 67687 67097
= 463 30
000

M01: 4905 kHz, 2000 UTC, 28-07

025 770 30 =
84910 23170 98962 14019 94883 87500 33494 49996 29851 30799
69690 28166 78939 83810 60330 61599 16248 46647 09679 55702
77076 24460 64213 16506 76034 41553 47045 75971 32103 84879
= 770 30
000

All logged by Spectre 3000

M01b: 5340 kHz, 2010 UTC, 29-07

467 784 30 =
96469 59730 16669 73683 03195 46992 88400 13377 40668 14316
95218 42904 83944 43608 81401 99433 75595 64000 51458 15012
76337 62624 77213 27132 70527 22786 26022 77832 13715 15833
= 784 30
000

M12



The following transcripts were submitted by Danix and Spectre. Thanks for that!

9176/7931/6904 kHz, 1800/1820/1840 UTC, 04-07

257 257 257 1
6868 53 6868 53
28980 87147 18000 97702 71240 25361 63758 14337 28256 37957
96177 21394 23019 56968 59109 18952 67385 70380 98512 44831
30382 97892 76625 93816 33860 15010 36619 03830 20682 28857
77991 33735 55484 33869 12976 76341 96398 96398 19435 32400
12082 24522 17108 92657 09448 71385 79687 34421 39652 59552
22081 29099 33320 42382
0 0 0 0 0

9176/7931/6904 kHz 1900/1920/1940 UTC, 25-07

257 1 3254 58
19608 26356 92908 00294 42010 91529 96179 60817 03200 01544
31244 58838 41883 40386 79651 83553 71899 01118 78439 15238
41694 62207 13049 81361 44196 57805 47023 50632 06374 78457
87886 75702 98909 08851 86339 46534 19446 43612 78508 01508
12956 34703 80384 38780 21979 08118 58802 13894 86629 18005
28242 28818 72717 41841 94795 61913 51748 90241
000 000

9176/7931/6904 kHz, 1700/1720/1740 UTC, 04-07

257 257 257 1
2025 79 2025 79
58248 34067 08568 11914 83232 33625 56451 95458 61803 58008
04009 41219 17010 32217 24783 02743 50307 58642 13682 84081
98899 80389 57687 36337 81457 12723 70168 80449 64414 55718
18616 46632 47628 31776 11720 19342 25912 28767 77934 48906
99552 31798 75197 92560 33752 67972 04039 80291 92677 16971
24956 52271 92033 79520 89483 07091 58030 22044 09665 64640
17002 26831 06469 60760 41898 85713 94550 78855 81461 05318
61836 61931 66737 46891 78568 37530 21607 67217 85444
0 0 0 0 0

7931/6904 kHz 1920/1940 UTC, 25-07

257 1 914 46
39523 79730 77504 26156 45532 68765 35258 08105 35387 47757
96083 88001 40465 84469 92869 43091 43455 41898 75664 26123
82508 93196 18579 42375 91418 26374 21031 71170 75292 90420
35443 00590 80402 52709 55953 85883 47745 64623 29143 85461
01249 38894 68897 67683 60066 55573 000 000

9176/7931/6904 kHz, 1900/1920/1940 UTC, 04-07

257 257 257 1
2711 92 2711 92
62465 02871 16531 10896 19649 07491 98619 79821 14228 36754
47161 97493 33859 03789 87660 82181 90739 69412 36030 88011
16445 45995 96725 90119 56433 47390 84849 33458 73279 01608
05933 89895 42207 98877 37435 44363 60631 69854 29626 27497
67259 96226 31812 52629 18116 53914 45058 65547 48892 97651
95697 69010 06896 17474 55787 73698 36142 73640 28081 74907
90164 87756 34360 56190 26020 61511 49134 91119 60486 71510
05998 64328 75064 94492 95174 43301 02810 84351 57774 03699
50319 95310 65251 51183 29009 59115 60143 34000 79936 70468
38123 46754
000 000

13972 kHz 1300 UTC, 11-07

944 1 472 181
26512 99802 43992 24635 91844 47429 00673 74365 57550 86739
80590 10148 26586 46324 60119 27540 47702 07202 55457 96618
33714 48873 72862 47339 38140 09782 40557 62152 46084 61635
25579 87089 45959 83903 24441 35821 93271 86644 82739 98816
06929 32770 56592 50093 37972 67155 95577 34278 97898 41169
83310 47870 07907 58568 43269 01242 30526 38646 90069 75106
20229 75084 75226 97109 82420 79251 31944 32152 19995 17833
33174 12838 67998 98697 71338 00120 04386 66103 86087 92270
52137 64031 15040 60347 19283 14156 33652 39312 57926 63610
94152 43883 58902 56495 02476 17896 13917 29312 73318 32308
182*2 69881 41720 18120 85781 42910 78071 36734 06430 91226
03851 18877 18996 17610 71174 32820 54892 62019 60773 19817
17808 46831 64830 35125 77137 14930 19999 09335 92640 17681
38898 50884 47511 51503 99584 37994 27130 87232 76553 64567
71724 33744 40689 48253 80303 24304 68934 62049 72258 61278
37774 32469 17747 92511 79527 56664 73468 62107 12487 13088
83385 13189 00978 82150 81836 51146 52255 75001 42581 49957
70771 52213 71317 72601 98193 74152 31295 91059 51222 30567
04555 000 000

* = Not Heard

9379/7979 kHz 2100/2120 UTC, 27-07

398 1 938 97
08731 16021 68575 07301 86144 76299 71619 77093 68376 58619
26926 26386 52008 36745 78159 45467 03708 61121 71328 17100
58320 72825 25646 62929 12161 83332 90548 79787 33766 43924
63000 10603 01676 38164 14396 73841 28102 46880 41603 44351
62467 67323 00620 42425 18467 85577 92004 15935 15499 45158
25633 14549 75829 04416 24331 24533 59690 92726 42177 42776
34930 33923 51591 86820 63564 74703 59458 34130 63771 09072
79621 38927 37967 80263 17250 54910 68849 75092 24640 42339
95489 03724 45153 57223 55610 93675 51443 94457 31930 31470
24727 63907 98965 42515 54055 40828 99224
000 000

M21 **Russian Air Defence Forces**
Voyska Protivo Vozdushnoy Oborony
Во́йска ПВО Во́йска ПВО



Only two logs in July: Id "9": 7166, 9222 kHz

M23

JPL copied the station with a very strong signal on 2 July.

11442 kHz, 1402 UTC, //12170 kHz
12170 kHz, 1402 UTC, //11442 kHz
11442 kHz, 1702 UTC, //12170 kHz
12170 kHz, 1702 UTC, //11442 kHz

M51 – French Military / Intel morse training net



Several M51 transmissions were reported in July. The net is apparently not very popular these days because we see hardly any logs.

5082 kHz, 1947 UTC, 11-7
6824 kHz, 1615 UTC, 12-7
3880 kHz, 2120 UTC, 12-7
6824 kHz, 2120 UTC, 12-7
6824 kHz, 1800 UTC, 18-7
6824 kHz, 0304 UTC, 19-7
3880 kHz, 0304 UTC, 19-7
12130 kHz, 0915 UTC, 21-7
8070 kHz, 0732 UTC, 22-7
8070 kHz, 0515 UTC, 23-7
6818 kHz, 0305 UTC, 23-7
7615 kHz, 0519 UTC, 23-7
11401 kHz, 2336 UTC, 29-7
5426 kHz, 0224 UTC, 30-7

They are still using the old 1983 tapes: "BT NR 13 J 27 01:29:33 1983 BT"

M89 – Chinese military



VVV Q2M Q2M Q2M DE NYZ NYZ QSA? k	4860, 6840, 10640 kHz
V MB3R MB3R MB3R DE YA6X YA6X	Not heard
V QPZM QPZM QPZM DE WOXN WOXN	3327, 4523, 7568, 7602, 10643 kHz
V JA3L JA3L JA3L DE UN2T UN2T	Not heard
V 7NPE 7NPE 7NPE DE QV5B QV5B	4225, 5500, 7582, 7833, 8110, 10643 kHz
V 7NPE 7NPE 7NPE DE CI4W CI4W	Not heard
V DKG6 DKG6 DKG6 DE 3A7D 3A7D	3642, 7602, 10180, 10643 kHz
V GKVZ GKVZ GKVZ DE Q7NW Q7NW	3297 kHz
V 9VUP 9VUP 9VUP DE JR5U JR5U	Not heard
V RXP7 RXP7 RXP7 DE CZT2 CZT2	8395, 11432 kHz
V H2FL H2FL H2FL DE DRV8 DRV8	3797, 4532, 6773, 8040 kHz

Note:

This freq was previously used by UN2T which was last heard in May 2011. This appears to further support the theory that DRV8 has replaced UN2T.



Large military
antenne array
near Xixiang.

M94 & V24



Thanks to T! for the V24 & M94 schedules. Much appreciated!

Day	1200	1230	1300	1330	1400	1430	1500	1530	1600	1630
1	5715		5715				5115	4900		
2	5715		5715				6215	5115		
3			5715	6330		5715	6215	5115		
4			5715	6330		5715	4900			
5					5115	6730	4900			6730
6			6730		5115	6730			6215	6730
7			6730			4600			6215	
8						4600		4600		
9		6215		6730				4600 or 6330		
10		6215		6730	M94 6330	5715	6215	6330		5115
11					M94 6330	5717	6215	5715		5115
12	5715							5715		5115
13	5715							6730		5115
14	4900							6730		5715
15	4900					6730		4900		5715
16						6730	4900	4900		
17							4900	5115		
18			5715	6330			6215	5115		
19			5715	6330			6215			
20						5715	5115			6730
21						5715	5115	6730	6215	
22						4600		6730	6215	5115
23				6730		4600			6215	
24	5715		5715	6730			4600	6330	6215	
25	5715		5715				4600	6330		
26					M94 6330		6215			
27			6730	4900	M94 6330					5115
28			6730	4900				5715		
29		6215	6215					5715		5715
30										
31										

VARIOUS MODES

M42 & X06 - Russian Government / Intelligence



8100	0643	04-07	Mazielka. X06b
13979	1126	04-07	Mazielka. Sequence: 215346
11090	1130	04-07	Mazielka. X06b
11090	1134	04-07	Mazielka. X06b/X06a mix
11090	1139	04-07	Mazielka. X06a for 1 minute
11090	1140	04-07	Mazielka. Sequence: 345-43
13510	1151	04-07	Mazielka. Sequence: 216435
7954	0955	05-07	Russian Gov/Intel. "... =82812703473200042758583 81712886610948896476981 ...", end "57614100000+++++++177". Mode: F1B-RTTY/ITA2-200/500
12100	0700	06-07	Mazielka. Sequence: 123456
12100	0819	06-07	Mazielka. Sequence: 123456
12100	0843	06-07	Mazielka. Sequence: 123456 On air till 0928 UTC
12100	0950	06-07	Mazielka. Sequence: 123456 On air till 0952 UTC
12100	1034	06-07	Mazielka. Sequence: 123456
13870	2200	06-07	Mazielka. Sequence: 123456
12100	1340	06-07	Mazielka. Sequence: 123456. Ends 1343 UTC
6940	1426	06-07	Mazielka. Sequence: 123456
16166.5	1444	06-07	Russian Gov/Intel. Mode: CROWD-36
12100	1516	06-07	Mazielka. Sequence: 123456
11090	1223	07-07	Mazielka. Sequence: 123456
8100	0245	07-07	Mazielka. Sequence: 123456
13870	0245	07-07	Mazielka. Sequence: 123456
12100	0610	07-07	Mazielka. Sequence: 123456
14655	0626	07-07	Mazielka. Sequence: 123456
6877	1652	07-07	Russian Gov/Intel. Mode: CROWD-36. Idling.
14938	2130	07-07	Russian Gov/Intel. Mode: CROWD-36
8100	2230	07-07	Mazielka. Sequence: 123456 Extreme long transmission. Went on till at least 2345 UTC
8000	1035	10-07	Mazielka. Sequence: 123456
8000	1120	10-07	Mazielka. Sequence: 123456
12100	1136	10-07	Mazielka. Sequence: 123456
8100	1158	10-07	Mazielka. Sequence: 456
11500	1158	10-07	Mazielka. Sequence: 123456
12100	1207	10-07	Mazielka. Sequence: 123456. Still going on at 1312 UTC
11500	1207	10-07	Mazielka. Sequence: 123456. Still going on at 1312 UTC
11500	1330	10-07	Mazielka. Sequence: 123456
8100	1253	10-07	Mazielka. Sequence: 456. Till at least 1317 UTC
12100	1347	10-07	Mazielka. Sequence: 123456
12100	1720	10-07	Mazielka. Sequence: 123456
12100	2150	10-07	Mazielka. Sequence: 123456
7910	2214	10-07	Mazielka. Sequence: 123456. Long transmission. Ended at 0356 UTC on 11-7
8100	2155	10-07	Mazielka. Sequence: 234. Very long transmission. Ended at 0400 UTC on 11-7
11090	0733	11-07	Mazielka. Sequence: 121212
7854	0827	11-07	Mazielka. Sequence: 123456
8100	1014	11-07	Mazielka. Sequence: 123456
8144	1325	11-07	Russian Gov/Intel. Mode: CROWD-36
12100	1150	12-07	Mazielka. 2 transmitters with rising scale out of sync
8100	1514	12-07	Mazielka. Sequence: 123456
12100	1515	12-07	Mazielka. Sequence: 123456

10165	1606	12-07	Mazielka. Sequence: 123456
13870	1650	12-07	Mazielka. Sequence: 123456
14875	1940	12-07	Mazielka. Sequence: 123456 Long transmission till at least 2014 UTC
15765	2104	12-07	Mazielka. Sequence: 123456
16190	2106	12-07	Mazielka. Sequence: 123456
8105	0753	13-07	Mazielka. Sequence: 314265
14970	0949	13-07	Mazielka. Sequence: 216354
14650	0956	13-07	Mazielka. Sequence: 215346
14944	1047	13-07	Mazielka. Sequence: 621543
8094	1102	13-07	Mazielka. Sequence: 421542
4000	1356	14-07	Mazielka. Sequence: 123456
17000	1934	14-07	Mazielka. Sequence: 123456
7855	1951	14-07	Mazielka. Sequence: 123456
14875	2100	14-07	Mazielka. Sequence: 123456
14875	2213	14-07	Mazielka. Sequence: 123456
14931.5	1258	20-07	Russian Gov/Intel. Mode: CROWD-36
14812	1818	20-07	Mazielka. Sequence: 1--6--
19931	1258	20-07	Russian Gov/Intel. Mode: CROWD-36
9300	0701	22-07	Mazielka. Sequence: 112111
9288	0750	22-07	Mazielka. Sequence: 356412
16150.5	1309	22-07	Russian Gov/Intel. Mode: CROWD-36
11485	1216	23-07	Russian Gov/Intel. Mode: Baudot 200/500
12113	0959	25-07	Russian Gov/Intel.
9213	1716	27-07	Russian Gov/Intel. Mode: CROWD-36
7855	1846	27-07	Mazielka
12144.5	1415	28-07	Russian Gov/Intel. Mode: CROWD-36
14440	1525	28-07	Mazielka
7730	1753	28-07	Mazielka. Sequence: 123456
13482	1650	29-07	Mazielka. Sequence: 314265

MILITARY STATIONS

M32 - Russian/CIS/Ukrainian Military SSB & CW Stations



Various dates and times.

4042.0	Russian Navy: "rmp rmp rmp de rji26 rji26 zzd?". RJI26 also wkg RIQ7.
4419.0	CIS Mil: "4x5i de qmcn qta 767 k"; "qsa rsagl lmgil 74t2w lott3 1t74t = zxs 372 – ddddd"; "53w7de mgil r74t?k"
5144.0	Russian Mil: "XXX XXX MDZhB MDZhB 44216 SKISLYJ eeeeeeee"; "XXX XXX MDZhB MDZhB 44216 SKISLYJ 1226 0005"
5171.0	CIS Mil: SMT9
6506.5	CIS Mil: 6WZU radio check with 9UWY
6804.0	CIS Mil: "ZZXC ZZXC ZZXC ZCK ZZN ZFR ZXO ZCZ ZPV = ZZXC ZZXC ZZXC ZCK ZZN ZFR ZXO ZCZ ZPV +"
6832.0	Russian Navy Kaliningrad. "REO DE RMP QTC"

6846.0 Russian Mil: IUKM wkg 9PKW w/OP-chat & QTC "628 19 5 0248 ..."
Russian. Mil: 8PGF msg to collective JFQZ: "OPGF 022 23 29 0040 022 = ZQD 573 = PPPPP
ÜÖSJK ...". Cancels msg to WETQ, and OXAG, then QTC similar message to GFFG alone
"RPT AL". GFFG repeats it back on QSX freq 5879 kHz.

6946.0 Russian Mil: "XXX XXX PABA PABA 62914 INICYATYWNYJ 6412 62914 INICYATYWNYJ
6412 XXX XXX PABA PABA 62914 INICYATYWNYJ 6412 62914 INICYATYWNYJ 6412 k"

6996.5 CIS Mil: 7P9M wkg unid "de 7P9M QSA1 QSA? K"

7314.0 CIS Mil: BILX wkg NMQC

7740.0 CIS Mil: QVPX clg 2INF.

7872.0 Russian Mil. Auto transmission, no timestamp. Local time 0310 in UTC+3h area; "LPAW
LPAW LPAW QTC 794 22 18 t31t 794 =znk 1t8= 43442 ... 18789 AR"
Russian Mil. Auto transmission, no timestamp. Local time 0030 (tt3t) in UTC+3h area;"
LBDO LBDO LBDO QTC 613 28 17 tt3t 613 =zpd 763= wwob_ ... äipwr 789 ar"

7931.0 Russian Mil: "1P2E DE 9AHA ZOJ ZNM ZYR QYT BK"

7977.0 Russian Mil: "C2NB QRV QRJ"

8136.0 Russian Navy: "xxx xxx rdl rdl" + message

8345.0 Russian warship: "RIT DE RMZW"

8895.0 CIS Mil: KFE4 wkg T6AN
9047.0 RIR2: Russian navy 04:26 A1A/CW VVV RGR36 de RIR2 (19 July)(PPA)

10108.0 Russian Mil: "RDL 30148 18218 k"; "RDL 31817 02925 k"; "RDL 84781 31979 k";
"XXX RDL 11111 5LGs"

10163.0 Russian Naval Strategic Message: "XXX XXX rdl rdl e a85 eo 71 o"

10492.0 Russian warship RMBB wkg RCV: "... LÜÄOT PYÄOT AR RMBB K", then sends a further
185-group message: "RMBB 186 185 6 1955 186 # SML = ÄRÜBE JMETH ..." then a
further message of 198 groups.

11000.0 Russian Navy: "RAL48 DE RIW QSA? QTC"

11155.0 Russian Navy Severomorsk "RMZW DE RIT QYT9"; "RAL48 DE RIT QSA?"
Russian Navy: "RHC93 DE RIT QSA3"

11354.0 Russian Naval Air Transport.

12741.0 VGK General staff "xxx xxx rlo rlo rdl rdl 63884 78420 gipoforin 3508 3388 tipiöeskij
1893 6384 k" // on at least 11116, 12832, 14664, 16112 kHz.

VGK General staff "xxx xxx rac rac rdl rdl 18258 07930 gipoforin 3508 3388 tipiöeskij
1893 6384 k" Repeat of previous bcast to RLO and RDL. // 6328, 8076, 8136, 9044,
10535, 12832, 14664, 16112, 17460, 16912 kHz but not on 11116 kHz.

12832.0	VGK General staff "xxx xxx red4 red4 rdl rdl 98813 67657 kamerger 2684 2803 walosedan 8443 0165 k"
13396.0	Russian Mil: "xxx xxx sxt14 sxt14". Later it sends "2029 00697 65710 luz t 8858". Ends with 5s k etg ?"
14025.8	Russian Mil: PSK2 2k6
14096.0	Russian Mil: "7TSF DE HRG7 AR"
14108.0	Russian Mil: L38F, QLN, INJ3, KOK9, F2ZR, SANH, EL9Y, ZON5, MWCU, K7I5, TOPS, AGV3, 2NLN, SVXL, FAAE, 2NLN, VTNS, 94VT, QOG1, E5IW, 6MQJ, WEGI, V7W6, E5K, E5JN, XB2M, 2NKR, IFLJ, FZZD, XUEF, L38F, XZTP. "XZTP de L38F QTA QLX QJG QYT9 K" "XXX 94VT 88354 KAWAK 6768 0581" "XXX WEGI 39764 ZABOJKA 8807 7819 K" "XXX XBM2 12148 NASTYRNYJ 5873 2021 K"
14411.0	Russian Naval Strategic Message: "XXX XXX RED4 RED4 RDL RDL 95951 60474 doqatyj 7001 0439 k
14552.0	Russian Mil: "xxx xxx wegi wegi 92766"
14556.0	Russian Navy: "tnis95 de riw qk isx 14451k"; "emzw de riw tniwok qyt 4qwh 12668k"; "mzw de riw qyt4 qsx 18952 k"
14664.0	Russian Mil: "RDL RDL RDL 38194 39535 38194 39522 38194 ... all 38.../39... XXX followed by T-600 messages
15080.0	Russian Mil: "xxx xxx rgt77 rgt77 isttt ttnm227 bosoplse t?44 02u". Next time sends "xxx xxx rgt77 rgt77 82eimnitej7 bosope eato2"
16111.0	Russian Mil: "xxx xxx tb7732"
16912.0	VGK General staff "xxx xxx red4 red4 rdl rdl 62186 53668 afera 6868 1274 luönoj 3369 5521 k" "xxx xxx red4 red4 rdl rdl 79305 62928 guöka 2111 0955 k" "xxx xxx red4 red4 rdl rdl 69950 50913 kallislä 8321 2900 k" "xxx xxx red4 red4 rdl rdl 60113 39549 wzmetka 7008 1007 kamyöowyj 0397 6571 k" "xxx xxx rac rac rdl rdl 12678 65739 fantik 2302 7449 k" // 6328, 8076, 8136, 9044, 10535, 12741, 12832, 14664, 17460, 16912 kHz. "xxx xxx red4 red4 rdl rdl 76804 11914 lapowyj 8163 4983 k" // 8076, 8136, 9044, 10535, 12741, 12832, 14664, 16112, 17460 kHz.
17018.0	CIS Mil: "rcv rcv rcv de rmgz zzd ? K"

UTILITY ROUND-UP

Unid Indonesian weather? net



Still active on 14277.7 kHz and still no idea who they are.

Unid station

Last month we received a log of an unid station that transmitted on 11082 kHz, 1914 UTC, 14-05: Unid 3K net "VVV VVV 3K".

Trond found the station again on the same frequency:

11082 kHz, 1032 UTC, 06-06: Probably an unid component of a Russian mil (GRU controlled) HFDF net. It transmits A1A control strings "VVV VV VVV 3k", no 2ch 81-81/500(1000) observed with tactical data.

Unid Asian net

Recently I mentioned that Gary has heard an unid Asian net at various dates and frequencies in 2011. The operators are singing and chatting; passionate speeches and group chats are common on this net.

Dauntless says that the language is most likely Hindi. Can anyone who speaks the language please listen to the recording on the N&O website and let me know what is said?

Logs so far:

6671 kHz, 08-03-2009
6734 kHz, 2244 UTC, 16-01-2011
6734 kHz, 2343 UTC, 01-02-2011
6734 kHz, 2238 UTC, 10-03-2011
6734 kHz, 2228 UTC, 24-03-2011
6734 kHz, 2253 UTC, 02-05-2011
6734 kHz, 05-05

Libya: Operation "Unified Protector"



The following Psy-Ops transmissions to Libya were reported.

10404 kHz, 1350 UTC, 02-07
10125 kHz, 1240 UTC, 17-07
10404 kHz, 1018 UTC, 19-07, till at least 1430 UTC
10125 kHz, 1255 UTC, 31-07

Intelligence profile: Iran



BACKGROUND

Known as Persia until 1935, Iran became an Islamic republic in 1979 after the ruling monarchy was overthrown and Shah Mohammad Reza PAHLAVI was forced into exile. Conservative clerical forces established a theocratic system of government with ultimate political authority vested in a learned religious scholar referred to commonly as the Supreme Leader who, according to the constitution, is accountable only to the Assembly of Experts - a popularly elected 86-member body of clerics. US-Iranian relations have been strained since a group of Iranian students seized the US Embassy in Tehran on 4 November 1979 and held it until 20 January 1981. During 1980-88, Iran fought a bloody, indecisive war with Iraq that eventually expanded into the Persian Gulf and led to clashes between US Navy and Iranian military forces between 1987 and 1988. Iran has been designated a state sponsor of terrorism for its activities in Lebanon and elsewhere in the world and remains subject to US, UN, and EU economic sanctions and export controls because of its continued involvement in terrorism and its nuclear weapons ambitions. Following the election of reformer Hojjat ol-Eslam Mohammad KHATAMI as president in 1997 and a reformist Majles (legislature) in 2000, a campaign to foster political reform in response to popular dissatisfaction was initiated. However conservative politicians prevented reform measures from being enacted and increased repressive measures. Conservatives reestablished control over Iran's elected government institutions. in 2004 when hardliner Mahmud AHMADI-NEJAD became president.

GENERAL

Country name: Jomhuri-ye Eslami-ye Iran (Islamic Republic of Iran)
Short form: Iran
Former name: Persia
Capital: Tehran
30 provinces: Ardabil, Azarbayjan-e Gharbi, Azarbayjan-e Sharqi, Bushehr, Chahar Mahal va Bakhtiari, Esfahan, Fars, Gilan, Golestan, Hamadan, Hormozgan, Ilam, Kerman, Kermanshah, Khorasan-e Jonubi, Khorasan-e Razavi, Khorasan-e Shomali, Khuzestan, Kohgiluyeh va Bowyer Ahmad, Kordestan, Lorestan, Markazi, Mazandaran, Qazvin, Qom, Semnan, Sistan va Baluchestan, Tehran, Yazd, Zanzan.

MILITARY BRANCHES

Ground Resistance Forces, Navy, Air Force of the Military of the Islamic Republic of Iran (Niru-ye Hava 'i-ye Artesh-e Jomhuri-ye Eslami-ye Iran), Islamic Revolutionary Guard Corps (Sepah-e Pasdaran-e In-qelab-e Islami), Qods Force (special operations), Basij Force (Popular Mobilization Army), Law Enforcement Forces, J2 Intelligence and Security.

INTELLIGENCE / SECURITY AGENCIES

SAVAK - Sazeman-e Ettela'at va Amniyat-e Keshvar (National Intelligence and Security Organization)

VEVAK - Vezarat-e Ettela'at va Amniyat-e Keshvar (Ministry of Intelligence and Security)

Ouqab 2 .

Joint Committee for Special Operations

- SAVAK - Sazeman-e Ettela'at va Amniyat-e Keshvar

The SAVAK was Iran's main security and intelligence service established in 1957 by the Shah. SAVAK was established with the help of the USA (CIA). After the Iranian Revolution of 1979, the SAVAK was closed down. Circa 3,000 agents were hunted down and executed by the Revolutionary Guards.

- VEVAK - Vezarat-e Ettela'at va Amniyat-e Keshvar

The VEVAK was founded in August 1984 and replaced many small intelligence agencies. The VEVAK is one of the most powerful ministries in the Iranian government and the primary intelligence agency of Iran. VEVAK personnel are either attached as diplomats in Iranian embassies and consulate offices or as Ministry of Guidance and Propaganda representatives. Non-official covers include Iran Air or as students, merchants, mechanics, shopkeepers, bank clerks, as well as members of opposition groups. VEVAK has frequently relied on the foreign branches of Iranian state-controlled banks to place intelligence agents and to finance terrorist operations.

- Ouqab 2

Ouqab 2 is an Iranian counter-espionage agency set up in December 2005 aimed at protecting its nuclear programme against external operations. Its creation would have been decided after the arrest of two foreign agents collecting information about two previously unknown nuclear plants in Parchin and Lawizan.

- Joint Committee for Special Operations

The Joint Committee for Special Operations is composed of the president, its top religious authority, and other senior security officials, including officials of the Pasdaran, the Ministry of Foreign Affairs and the VEVAK. The Committee is responsible for coordinating intelligence gathering, as well as activities within the Iranian exile community.

- J2 Intelligence and Security

The Joint Staff of the armed forces is composed of officers of the Pasdaran, the National Police, and other intelligence agencies. Its primary tasks include intelligence operations, intelligence training, and counter intelligence.

- Sepah-e Pasdaran-e Inqelab-e Islami (Iranian Revolutionary Guard Corps)

After ayatollah Khomeyni became the new leader of Iran the Pasdaran was formed by a decree by the ayatollah in May 1979, to protect the Islamic revolution. Another organization, second to the Pasadran in importance, was Sepah-e Basij which merged with the Pasdaran in 1980. The Pasdaran is the most powerful political and military organization in Iran. It operates its own armored, naval and air units. These units are used for the enforcements of Islamic laws in the urban areas; collecting intelligence; protecting government owned buildings; and assisting Islamic revolutionary movements abroad. It is the latter function that made them interesting for us because they were on Short Wave! The Guards became "world famous" when they hijacked the US embassy in Teheran on 4-11-1979, holding embassy personal hostage for 444 days. Since that time numerous attacks were made against western or Israeli people and organizations. The extremist Shia seem to be the most active. Shia groups like Hezbollah and Hamas were trained by the IRGC. In at least 11 camps the Pasdaran trains thousands of extremists to fight in Islamic wars. The Shia and Pasdaran fight in every Islamic war in the world or are responsible for the training of local terrorist groups. In recent years they fought not only against the Kurds, but they were also active in Afghanistan, Algeria, Egypt, Lebanon, Sudan and in Bosnia where ca. 200 Guards stayed behind after the civil war.

The Pasdaran stations haven't been heard in the past few years. I don't know what kind of communications they are using these days.

Frequencies used:

Voice USB:

10293, 13456, 13576, 14545, 14556, 14576, 14906, 15956, 18506 kHz

Packet 300bd:

10293.7, 13456.7, 13576.7, 14545.7, 14556.7, 14576.7, 14906.7, 15956.7, 18506.7 kHz

Packet 200bd + CW:

13506.7, 13550.7, 13556.7, 13567.7, 14507.2, 15946.7, 18577.2 kHz

Callsigns:

101, 261, 601, 701, 702, 711, 721, 751, 752, 761, 801, 802, 851, 901, 981

701 = Khartoum

901 = IRGC Teheran

JAMMING

In 2003 shortly after the VOA had launched a daily TV news program in Persian, the satellite beaming these channels into Iran was jammed by Iran. The jamming signal is believed to have emanated from an Iranian diplomatic facility in Havana, Cuba. *)

Iran is still jamming broadcasts of groups that are unfriendly to the government. Not only on HF but also satellites are jammed. The BBC, Deutsche Welle and Voice of America said the recent satellite jamming began on the day of the 31st anniversary of the Islamic Revolution in Iran. Several clandestine stations (often operated by Kurds) are transmitting to Iran on short wave. Their transmissions are often jammed. The stations are believed to be located in Kurdish areas in Iran and Iraq. The list is most probably not complete. Not all of the stations are still active. Some pop up every now and then without a known fixed schedule.

- Voice of Komalah (Revolutionary Organization of Toilers of Iranian Kurdistan)
- Voice of Komalah (not the same; Communist Party of Iran via a transmitter in Russia).
- Voice of the Iranian Revolution (Communist Party of Iran; transmitting from Sweden)
- Radio International (Workers Communist Party of Iran)
- Radio Council Democracy (Organization of Feda'ian)
- Radio Barabari (Revolutionary Workers Organization of Iran; transmitting from Sweden)
- Radio Sedaye Kargaran Iran (Voice of the Workers of Iran)
- Voice of the Struggle of Iranian Kurdistan
- Voice of Iranian Kurdistan (operated by the Democratic Party of Iranian Kurdistan, based in Iraq)
- Voice of Kurdistan

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Wikipedia
Open domain sources on the internet
*) source: BBC

LOGS SECTION

Freq.	enigma	date	UTC	remarks	mode	day	contributor
3297	M89	21-7-2011	2118	V GKVZ GKVZ GKVZ DE Q7NW Q7NW	CW		(AB-HK)
3297	M89	6-7-2011	1152	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (Wed)	CW		(JPL-HK)
3297	M89	6-7-2011	2027	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (Wed)	CW		(JPL-HK)
3297	M89	7-7-2011	1403	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (Thu)	CW		(JPL-HK)
3297	M89	8-7-2011	1730	V GKVZ (x3) DE Q7NW (x2) (Cont'd) (Fri)	CW		(JPL-HK)
3297	M89	11-7-2011	1306	V GKVZ (x3) DE Q7NW (x2) In 4 group cipher traffic	CW		(JPL-HK)
3297	M89	13-7-2011	1726	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
3297	M89	15-7-2011	1929	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
3297	M89	16-7-2011	1255	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
3297	M89	16-7-2011	1801	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
3297	M89	18-7-2011	1542	V GKVZ (x3) DE Q7NW (x2) (Cont'd) MSG NR 112 CK 301 44 05	CW		(JPL-HK)
3297	M89	21-7-2011	1248	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
3297	M89	21-7-2011	2138	V GKBZ (X3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
3297	M89	22-7-2011	1317	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
3297	M89	22-7-2011	2003	GKBZ (X3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
3297	M89	23-7-2011	2054	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
3297	M89	24-7-2011	1210	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
3297	M89	24-7-2011	1355	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
3297	M89	25-7-2011	1215	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
3297	M89	25-7-2011	1835	V GKVZ (x3) DE Q7NW (x2) (Cont'd) CQ NR 4709 BT BT 5803	CW		(JPL-HK)
3297	M89	25-7-2011	2109	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
3297	M89	26-7-2011	1850	V GKVZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
3297	M89	29-7-2011	1316	VZ (x3) DE Q7NW (x2) (Cont'd)	CW		(JPL-HK)
3642	M89	21-7-2011	2116	V DKG6 DKG6 DKG6 DE 3A7D 3A7D	CW		(AB-HK)
3642	M89	3-7-2011	1814	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Sun)	CW		(JPL-HK)
3642	M89	6-7-2011	2030	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Wed)	CW		(JPL-HK)
3642	M89	7-7-2011	1405	V DKG6 (x3) DE 3A7D (x2) (Cont'd) (Thu)	CW		(JPL-HK)
3642	M89	8-7-2011	1733	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602 (Fri)	CW		(JPL-HK)
3642	M89	13-7-2011	1726	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW		(JPL-HK)
3642	M89	15-7-2011	1932	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW		(JPL-HK)
3642	M89	16-7-2011	1802	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //7602	CW		(JPL-HK)
3642	M89	18-7-2011	1558	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW		(JPL-HK)
3642	M89	23-7-2011	2057	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW		(JPL-HK)
3642	M89	24-7-2011	2125	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW		(JPL-HK)
3642	M89	25-7-2011	1832	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW		(JPL-HK)
3642	M89	25-7-2011	2108	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW		(JPL-HK)
3642	M89	26-7-2011	1849	V DKG6 (x3) DE 3A7D (x2) (Cont'd)	CW		(JPL-HK)
3756	S30	3-7-2011	2110	Pip	CW		(AB)
3756	S30	1-9-6475	1759	Dlya CIHE Zh1TP M1CE 8N8Zh Ye7PM KZI' 8MCO TUZP 5J3Shch DMC3 Kak slyshno, priyom	USB		(Danix)
3797	M89	3-7-2011	1812	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Sun)	CW		(JPL-HK)
3797	M89	6-7-2011	1147	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Wed) //6773 and 8040	CW		(JPL-HK)
3797	M89	6-7-2011	2026	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Wed)	CW		(JPL-HK)
3797	M89	7-7-2011	1401	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Thu)	CW		(JPL-HK)

3797	M89	8-7-2011	1728	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Fri) //8040	CW		(JPL-HK)
3797	M89	13-7-2011	1730	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW		(JPL-HK)
3797	M89	15-7-2011	1927	V H2FL (x3) DE DRV8 (x2) (Cont'd) //4523	CW		(JPL-HK)
3797	M89	16-7-2011	1300	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW		(JPL-HK)
3797	M89	16-7-2011	1759	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW		(JPL-HK)
3797	M89	18-7-2011	1541	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW		(JPL-HK)
3797	M89	21-7-2011	1254	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW		(JPL-HK)
3797	M89	22-7-2011	2001	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW		(JPL-HK)
3797	M89	24-7-2011	1212	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW		(JPL-HK)
3797	M89	26-7-2011	1851	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW		(JPL-HK)
3797	M89	29-7-2011	1326	FL (x3) DE DRV8 (x2) (Cont'd)	CW		(JPL-HK)
3815	G11	17-7-2011	1959	262/00	USB		(Danix)
3815	E11	24-7-2011	1050	127/00	USB	Sun	(HFD)
3815	G11	8-7-2011	2000	262/77	USB	Fri	(OldDog)
3815	G11	17-7-2011	2000	262/00 Ende	USB	Sun	(OldDog)
3815	G11	17-7-2011	2000	262/00	USB	Sun	(Spec)
3815	E11	18-7-2011	1050	127/00	USB	Mon	(SWL1409)
3815	G11	3-7-2011	2000	262/00	USB	Sun	(SWL1409)
3829	S32	3-7-2011	2111	Squeaky Wheel	USB		(AB)
3880	M51	12-7-2011	2120	(i.p.)	MCW	Tue	(FMB)
3880	M51	19-7-2011	0304	(i.p.)	MCW	Tue	(FMB)
4000	X06c	14-7-2011	1356	123456	USB	Thu	(ScanSe)
4001	S06	1-7-2011	2058	294 00000	USB	Fri	(ScanSe)
4001	S06	2-7-2011	2058	294 00000	USB	Sat	(ScanSe)
4001	S06	1-7-2011	2100	294 00000	USB	Fri	(Spec)
4001	S06	2-7-2011	2059	294 00000	USB	Sat	(Spec)
4007	S06	3-7-2011	2058	294 00000	USB	Sun	(ScanSe)
4007	S06	3-7-2011	2059	294 00000 5555 (5555 x 7)	USB	Sun	(Spec)
4150	MX	3-7-2011	2113	Beacon "V"	CW		(AB)
4150	MX	8-7-2011	2132	Beacon "V"	CW		(AB)
4150	MX	20-7-2011	2123	Beacon "V"	CW		(AB)
4150	MX	24-7-2011	2044	Beacon "V"	CW		(AB)
4150	MX	24-7-2011	2153	Beacon "V"	CW		(MPJ)
4225	M89	21-7-2011	2114	V 7NPE 7NPE 7NPE DE QV5B QV5B //5500	CW		(AB-HK)
4225	M89	3-7-2011	1826	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500 (Sun)	CW		(JPL-HK)
4225	M89	5-7-2011	2255	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500 (Tue)	CW		(JPL-HK)
4225	M89	6-7-2011	1200	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500 (Wed)	CW		(JPL-HK)
4225	M89	6-7-2011	2034	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500 (Wed)	CW		(JPL-HK)
4225	M89	7-7-2011	1409	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500 (Thu)	CW		(JPL-HK)
4225	M89	7-7-2011	1628	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500 (Thu)	CW		(JPL-HK)
4225	M89	8-7-2011	1737	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500 (Fri)	CW		(JPL-HK)
4225	M89	12-7-2011	2251	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW		(JPL-HK)
4225	M89	13-7-2011	1929	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW		(JPL-HK)
4225	M89	14-7-2011	2306	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW		(JPL-HK)
4225	M89	14-7-2011	2325	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW		(JPL-HK)
4225	M89	14-7-2011	2332	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW		(JPL-HK)

4225	M89	15-7-2011	1935	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW		(JPL-HK)
4225	M89	18-7-2011	1137	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW		(JPL-HK)
4225	M89	18-7-2011	1559	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW		(JPL-HK)
4225	M89	21-7-2011	1253	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW		(JPL-HK)
4225	M89	21-7-2011	2143	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW		(JPL-HK)
4225	M89	22-7-2011	1325	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW		(JPL-HK)
4225	M89	22-7-2011	1828	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW		(JPL-HK)
4225	M89	24-7-2011	2128	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW		(JPL-HK)
4225	M89	25-7-2011	1238	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW		(JPL-HK)
4225	M89	25-7-2011	1830	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW		(JPL-HK)
4225	M89	26-7-2011	1848	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500	CW		(JPL-HK)
4225	M89	29-7-2011	1314	PE (x3) DE QV5B (x2) (Cont'd) //5500	CW		(JPL-HK)
4325.9	MX	3-7-2011	2115	Beacon "R"	CW		(AB)
4331	M22	1-7-2011	1943	Israeli Navy 4XZ	CW		(norave)
4331	M22	28-7-2011	2117	Israeli Navy - 4XZ	CW		(norave)
4422	VC01	3-7-2011	1558	Chinese Robot	USB		(AB-HK)
4422	VC01	4-7-2011	1059	Chinese Robot	USB		(AB-HK)
4478	M08a	9-7-2011	1100	5f cut nums: 62171	CW	Sat	(westli)
4512	S06	2-7-2011	2023	524 00000	USB	Sat	(ScanSe)
4512	S06	3-7-2011	2025	524 00000 , 800 Hz tone on transmitter + some mistakes	USB	Sun	(ScanSe)
4512	S06	1-7-2011	2024	524 00000	USB	Fri	(Spec)
4512	S06	2-7-2011	2024	524 00000	USB	Sat	(Spec)
4512	S06	3-7-2011	2024	524 00000 4444	AM	Sun	(Spec)
4523	M89	3-7-2011	1834	V QPZM (x3) DE WOXN (x2) (Cont'd) //7568 (Sun)	CW		(JPL-HK)
4523	M89	5-7-2011	2256	V QPZM (x3) DE WOXN (x2) (Cont'd) //7568 (Tue)	CW		(JPL-HK)
4523	M89	6-7-2011	2032	V QPZM (x3) DE WOXN (x2) (Cont'd) (Wed)	CW		(JPL-HK)
4523	M89	8-7-2011	1735	V QPZM (x3) DE WOXN (x2) (Cont'd) //7568 (Fri)	CW		(JPL-HK)
4523	M89	12-7-2011	2250	V QPZM (x3) DE WOXN (x2) (Cont'd)	CW		(JPL-HK)
4523	M89	13-7-2011	1930	V QPZM (x3) DE WOXN (x2) (Cont'd) //7568	CW		(JPL-HK)
4523	M89	15-7-2011	1933	V QPZM (x3) DE WOXN (x2) (Cont'd) //7568	CW		(JPL-HK)
4523	M89	16-7-2011	1258	V QPZM (x3) DE WOXN (x2) (Cont'd)	CW		(JPL-HK)
4523	M89	16-7-2011	1803	V QPZM (x3) DE WOXN (x2) (Cont'd)	CW		(JPL-HK)
4523	M89	18-7-2011	1125	V QPZM (x3) DE WOXN (x2) (Cont'd) //7568	CW		(JPL-HK)
4523	M89	18-7-2011	1600	V QPZM (x3) DE WOXN (x2) (Cont'd) //7568	CW		(JPL-HK)
4523	M89	21-7-2011	1251	V QPZM (x3) DE WOXN (x2) (Cont'd) //7568	CW		(JPL-HK)
4523	M89	21-7-2011	2145	V QPZM (x3) DE WOXN (x2) (Cont'd) //7568	CW		(JPL-HK)
4523	M89	22-7-2011	1823	V QPZM (x3) DE WOXN (x2) (Cont'd) //7568	CW		(JPL-HK)
4523	M89	23-7-2011	2100	V QPZM (x3) DE WOXN (x2) (Cont'd)	CW		(JPL-HK)
4523	M89	24-7-2011	1347	V QPZM (x3) DE WOXN (x2) (Cont'd)	CW		(JPL-HK)
4523	M89	24-7-2011	2127	V QPZM (x3) DE WOXN (x2) (Cont'd)	CW		(JPL-HK)
4523	M89	25-7-2011	1827	V QPZM (x3) DE WOXN (x2) (Cont'd) //7568	CW		(JPL-HK)
4523	M89	25-7-2011	2103	V QPZM (x3) DE WOXN (x2) (Cont'd) //7568	CW		(JPL-HK)
4523	M89	26-7-2011	1847	V QPZM (x3) DE WOXN (x2) (Cont'd)	CW		(JPL-HK)
4532	M89	15-7-2011	1927	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW		(JPL-HK)
4532	M89	23-7-2011	2053	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW		(JPL-HK)
4585	S28	31-7-2011	1902	Parasitic transmission	USB		(AB)
4585	S28	31-7-2011	0048	Parasitic transmission	USB		(Daunt)

4586	S06	3-7-2011	1950	125 00000	USB	Sun	(ScanSe)
4586	S06	1-7-2011	1950	125 00000	USB	Fri	(Spec)
4586	S06	2-7-2011	1950	125 00000	USB	Sat	(Spec)
4586	S06	3-7-2011	1950	125 00000 55555	AM	Sun	(Spec)
4625	S28	3-7-2011	2109	Buzzer	USB		(AB)
4625	S28	31-7-2011	1902	Buzzer in progress	USB		(AB)
4625	S28	7-7-2011	1242	MDZhB MDZhB 87754 AKMIT 9577 5683	USB		(AB-EST)
4625	S28	7-7-2011	1255	MDZhB MDZhB 30346 SKLONNYJ 3100 6016	USB		(AB-EST)
4625	S28	25-7-2011	0812	MDZhB MDZhB 75389 ZhITO 56 73 49 73	USB		(AB-EST)
4625	S28	25-7-2011	0822	MDZhB MDZhB 50267 DITIONIT 58 00 46 81	USB		(AB-EST)
4625	S28	25-7-2011	0905	MDZhB MDZhB 45472 VITIYe 56 49 27 33 SITAR 97 08 01 36	USB		(AB-EST)
4625	S28	25-7-2011	1205	MDZhB MDZhB 34700 LISOHVOST 40 95 59 44 VISLYaTKKA 52 88 30 76	USB		(AB-EST)
4625	S28	25-7-2011	1245	MDZhB MDZhB 34307 BIRYuZOVYJ 52 65 90 53	USB		(AB-EST)
4625	S28	25-7-2011	1320	MDZhB MDZhB 04101 BIRUHA 30 30 14 83	USB		(AB-EST)
4625	S28	6-7-2011	0815	MDZhB (x2) TRITON 641 646 (unusual format!)	USB		(Danix-EST)
4625	S28	7-7-2011	1240	MDZhB (x2) 87754 AKMIT 9577 5683	USB		(Danix-EST)
4625	S28	7-7-2011	1255	MDZhB (x2) 30346 SKLONNYJ 3100 6016	USB		(Danix-EST)
4625	S28	1-7-2011	1947	Buzzer	USB		(norave)
4625	S28	6-7-2011	0815	MDZhB Triton 641 646	USB		(RKh)
4665	S28	31-7-2011	1902	Parasitic transmission	USB		(AB)
4665	S28	31-7-2011	0049	Parasitic transmission	USB		(Daunt)
4670	S28	30-7-2011	0216	Parasitic transmission	USB		(Daunt)
4711	XM	3-7-2011	2110	voice inversion transmission	USB	Sun	(ScanSe)
4840	XM	6-7-2011	2332	Whales / Feedbacká	USB		(GN2)
4840	XM	6-7-2011	2008	feedback (XM stylish)	USB	Wed	(ScanSe)
4860	M89	21-7-2011	2120	VVV Q2M Q2M Q2M DE NYZ NYZ QSA? k //6840 kHz	CW		(AB-HK)
4860	M89	3-7-2011	1820	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Sun) //6840	CW		(JPL-HK)
4860	M89	7-7-2011	1420	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Thu) //6840	CW		(JPL-HK)
4860	M89	7-7-2011	1620	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Thu) //6840	CW		(JPL-HK)
4860	M89	8-7-2011	1720	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Fri) //6840	CW		(JPL-HK)
4860	M89	13-7-2011	1719	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW		(JPL-HK)
4860	M89	15-7-2011	1925	VVV (x3) Q2M (x3) DE NYZ (x2) (In progress) QSA ? K //6840	CW		(JPL-HK)
4860	M89	15-7-2011	2024	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW		(JPL-HK)
4860	M89	16-7-2011	1319	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Sat) //6840	CW		(JPL-HK)
4860	M89	18-7-2011	1819	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Mon) //6840	CW		(JPL-HK)
4860	M89	21-7-2011	2221	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Thu) //6840	CW		(JPL-HK)
4860	M89	22-7-2011	1319	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Fri) //6840	CW		(JPL-HK)
4860	M89	23-7-2011	2120	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Sat) //6840	CW		(JPL-HK)
4860	M89	24-7-2011	2119	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Sun) //6840	CW		(JPL-HK)

4860	M89	25-7-2011	1823	VVV (x3) Q2M (x3) DE NYZ (x2) (In Progress) QSA ? K (Mon)	CW		(JPL-HK)
4860	M89	26-7-2011	2019	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Tue) //6840	CW		(JPL-HK)
4860	M89	29-7-2011	1320	(x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Fri) //6840	CW		(JPL-HK)
4895	M01b	8-7-2011	2010	467-938/30=13348 //5340	MCW	Fri	(HFD)
4895	M01b	15-7-2011	2010	467 784 30 == 96469 15833 == 784 30 000	CW	Fri	(Spec)
4900	V24	1-7-2011	1530		AM	Fri	(token)
4900	V24	4-7-2011	1500	5f	AM	Mon	(token)
4905	M01	7-7-2011	2000	025 234 30 == 07196 92580 == 234 30 000	USB	Thu	(Spec)
4905	M01	14-7-2011	2000	025 560 30 == 11895 33646 == 560 30 000	CW	Thu	(Spec)
4905	M01	19-7-2011	2000	025 317 30 == 19414 46885 == 317 30 000	CW	Tue	(Spec)
4905	M01	28-7-2011	2000	025 770 30 = 84910 ... 84879 = 770 30 000	CW	Thu	(Spec)
4909	E11	2-7-2011	1445	287/00	USB		(Danix)
4909	E11	16-7-2011	1445	287/00	USB		(Danix)
4909	E11a	6-7-2011	1445	282/35 A 23776 ... 15239	USB		(Danix)
4909	S11a	17-7-2011	1355	254/00	USB		(Danix)
4909	E11	27-7-2011	1445	287/00	USB	Wed	(HFD)
4909	E11	9-7-2011	0900	243/34	USB	Sat	(OldDog)
4909	E11	23-7-2011	0900	248/00	USB	Sat	(OldDog)
4909	S11a	17-7-2011	1355	254/00	USB	Sun	(Spec)
4950	S28	30-7-2011	0220	Parasitic transmission	USB		(Daunt)
4958	G06	4-7-2011	1803	German female voice FIER DREI NEUEN NUL NUL NUL	USB		(PPA)
4960	G06	11-7-2011	1800	439 00000	USB	Mon	(Spec)
4973	S21	14-7-2011	1742	973...			(HS2)
5075	M45	19-7-2011	1702	074 731 30 = 33286	CW		(FN)
5075	M01b	8-7-2011	1903	336 938 30 == 13348 13749 == 938 30 000	USB	Fri	(Spec)
5076	M01b	15-7-2011	1902	336 784 30 = 96469] FN FRI	CW		(FN)
5082	M51	11-7-2011	1947	(i.p.)	MCW	Mon	(FMB)
5115	V24	1-7-2011	1500	Started 20 seconds late	AM	Fri	(token)
5115	V24	2-7-2011	1530		AM	Sat	(token)
5115	V24	3-7-2011	1530	5f, started 20 seconds early	AM	Sun	(token)
5150	M01b	11-7-2011	1915	858 784 30 == 86469	CW	Mon	(Spec)
5280	M01	14-7-2011	1800	025 415 30 == 88973 02733 == 415 30 000	CW	Thu	(Spec)
5280	M01	19-7-2011	1800	025 810 30 == 61129 10541 == 810 30 000	CW	Tue	(Spec)
5280	M01	28-7-2011	1800	025 463 30 = 38971 ... 67097 = 463 30 000	CW	Thu	(Spec)
5280	M01	19-7-2011	1800	ID:025	CW	Tue	(SWL1409DE)
5340	M01b	8-7-2011	2010	467-938/30=13348 //4895	MCW	Fri	(HFD)
5340	M01b	29-7-2011	2010	467 784 30 = 96469 ... 15833 = 784 30 000	CW	Fri	(Spec)
5373	S21	28-7-2011	1742	973 731 30 32887 ... 55545 731 30 000	USB	Thu	(Spec)
5426	M51	30-7-2011	0224	French Mil.	CW		(Jon-FL)
5427	G06	4-7-2011	1700	439 00000	USB		(Danix)
5427	G06	4-7-2011	1700	439 00000	USB	Mon	(Spec)
5427	G06	11-7-2011	1700	439 00000	USB	Mon	(Spec)
5430	S06s	19-7-2011	0700	374 904 5 19287	AM		(FN)
5473	S32	25-7-2011	1631	Dlya Shchuka26, Podpor89, kak slyshno, kak slyshno, priyom	USB		(Danix)
5475	M45	19-7-2011	1702	074 731 30 = 33286	CW		(FN)
5475	M01b	4-7-2011	1915	858 938 30 == 13348 13749 == 938 30 000	USB	Mon	(Spec)
5475	M01b	25-7-2011	1915	858 784 30 = 96469 ... 15833 = 784 30 000	CW	Mon	(Spec)

5500	M89	21-7-2011	2114	V 7NPE 7NPE 7NPE DE QV5B QV5B //4225	CW		(AB-HK)
5500	M89	28-7-2011	2203	V 7NPE 7NPE 7NPE DE QV5B QV5B	CW		(Danix)
5500	M89	3-7-2011	1826	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225 (Sun)	CW		(JPL-HK)
5500	M89	5-7-2011	2255	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225 (Tue)	CW		(JPL-HK)
5500	M89	6-7-2011	1200	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225 (Wed)	CW		(JPL-HK)
5500	M89	6-7-2011	2034	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225 (Wed)	CW		(JPL-HK)
5500	M89	7-7-2011	1409	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225 (Thu)	CW		(JPL-HK)
5500	M89	7-7-2011	1628	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225 (Thu)	CW		(JPL-HK)
5500	M89	8-7-2011	1737	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225 (Fri)	CW		(JPL-HK)
5500	M89	12-7-2011	2251	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW		(JPL-HK)
5500	M89	13-7-2011	1929	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW		(JPL-HK)
5500	M89	14-7-2011	2306	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW		(JPL-HK)
5500	M89	14-7-2011	2325	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW		(JPL-HK)
5500	M89	14-7-2011	2332	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW		(JPL-HK)
5500	M89	15-7-2011	1935	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW		(JPL-HK)
5500	M89	16-7-2011	1301	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW		(JPL-HK)
5500	M89	16-7-2011	1805	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW		(JPL-HK)
5500	M89	18-7-2011	1137	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW		(JPL-HK)
5500	M89	18-7-2011	1559	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW		(JPL-HK)
5500	M89	21-7-2011	1253	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW		(JPL-HK)
5500	M89	21-7-2011	2143	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW		(JPL-HK)
5500	M89	22-7-2011	1828	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW		(JPL-HK)
5500	M89	23-7-2011	2102	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW		(JPL-HK)
5500	M89	24-7-2011	2128	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW		(JPL-HK)
5500	M89	25-7-2011	1238	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW		(JPL-HK)
5500	M89	25-7-2011	1830	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW		(JPL-HK)
5500	M89	25-7-2011	1848	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225	CW		(JPL-HK)
5500	M89	25-7-2011	2106	V 7NPE (x3) DE QV5B (x2) (Cont'd)	CW		(JPL-HK)
5500	M89	29-7-2011	1314	PE (x3) DE QV5B (x2) (Cont'd) //4225	CW		(JPL-HK)
5715	V24	1-7-2011	1300	5f	AM	Fri	(token)
5715	V24	2-7-2011	1300	5f	AM	Sat	(token)
5715	V24	3-7-2011	1300	5f, started 20 seconds early	AM	Sun	(token)
5715	V24	3-7-2011	1430	5f, started 17 seconds early	AM	Sun	(token)
5715	V24	4-7-2011	1300	5f	AM	Mon	(token)
5715	V24	4-7-2011	1430	5f	AM	Mon	(token)
5731	E06	22-7-2011	0021		USB	Fri	(AnUK)
5731	E06	7-7-2011	2130	OM/EE 315 289 15 13398 04218 47382 ... 76153 289 15 0 0 0 0 0	USB	Thu	(OldDog)
5731	E06	22-7-2011	2130	OM/EE 315 289 15 13398 04821 47382 ... 76153 289 15 0 0 0 0 0	USB	Fri	(OldDog)
5731	E06	8-7-2011	2130	315 289 15 13398 76153 289 15 00000	USB	Fri	(Spec)
5731	E06	22-7-2011	2130	315 289 15 13398 76153 289 15 00000	USB	Fri	(Spec)
5731	E06	22-7-2011	2035	Counting i/p caught at the end	USB	Fri	(SWL1409)
5731	E06	22-7-2011	2130	315 385 15 13358	USB	Fri	(SWL1409)
5773	E07a	13-7-2011	2040	147 1 11006 451 71 98636 48029 000 000	USB	Wed	(Spec)
5773	E07a	27-7-2011	2040	147 1 33329 689 63 62624 ... 28461 000 000	USB	Wed	(Spec)
5773	E07a	27-7-2011	2040	147 - i/p	USB	Wed	(SWL1409)

5788	M12	13-7-2011	1740	463 1	CW	Wed	(HFD)
5788	M12	27-7-2011	1740	463	CW	Wed	(SWL1409)
5800	M08a	3-7-2011	0600	in progress	AM	Sun	(AgBr)
5800	M08a	5-7-2011	0600	5f cut nums: 42751 41002 06512	MCW	Tue	(westli)
5800	M08a	12-7-2011	0600	5f cut nums: 28481 14852 56822	MCW	Tue	(westli)
5800	M08a	19-7-2011	0600	5f cut nums:	MCW	Tue	(westli)
5805	M01b	7-7-2011	1942	936 948 30 == 13348 13749 == 948 30 000	USB	Thu	(Spec)
5813	S11a	2-7-2011	1020	221/00	USB	Sat	(HFD)
5815	S11	16-7-2011	1020	221/00	USB		(Danix)
5815	S11a	2-7-2011	1020	221/00	USB		(Danix)
5815	G11	2-7-2011	1325	294/96	USB	Sat	(HFD)
5815	S11a	23-7-2011	1020	YL Tscherta 0	USB	Sat	(OldDog)
5815	G11	2-7-2011	1325	294/36 Achtung 24515 33424 Ende	USB	Sat	(Spec)
5815	G11	19-7-2011	1755	270/00	USB	Tue	(Spec)
5815	G11	28-7-2011	1755	270/00	USB	Thu	(Spec)
5815	S11a	16-7-2011	1020	221/00	USB	Sat	(Spec)
5815	G11	5-7-2011	1755	Almost inaudible	USB	Tue	(SWL1409)
5817	MX	6-7-2011	2003	Beacon "V"	CW		(tING)
5824	M14	4-7-2011	0008	(i.p.) == 213 213 15 15 ttttt	CW	Mon	(FMB)
5835	S06s	13-7-2011	0840	908 5 09981	AM		(FN)
5835	S06s	20-7-2011	0830	471	AM	Wed	(OldDog)
5835	S06s	13-7-2011	0830	471 908 5 09981 13428 76845 33890 56743 908 5 00000	USB	Wed	(Spec)
5897	V02a	30-7-2011	0820	in progress	AM		(Daunt)
5898	M08a	3-7-2011	0500	in progress	AM	Sun	(AgBr)
5898	V02a	3-7-2011	0800	in progress	AM	Sun	(AgBr)
5898	M08a	5-7-2011	0500	5f cut nums: 42751 41002 06512	MCW	Tue	(westli)
5898	M08a	12-7-2011	0500	5f cut nums: 28481	MCW	Tue	(westli)
5898	M08a	19-7-2011	0500	5f cut nums: 32722 33061 31861	MCW	Tue	(westli)
5948	E06	7-7-2011	2030	724	USB	Thu	(Spec)
5948	E06	21-7-2011	2030	724 358 15 29842 21314 358 15 00000	USB	Thu	(Spec)
6215	V24	2-7-2011	1500	5f	AM	Sat	(token)
6215	V24	3-7-2011	1500	5f, started 30 seconds early	AM	Sun	(token)
6252	E11a	17-7-2011	1240	344/38 A 35250 ... 70842	USB		(Danix)
6252	E11	12-7-2011	1240	344/38 35250	USB		(FN)
6252	E11a	17-7-2011	1240	344/38 35250 70842	USB	Sun	(Spec)
6330	V24	3-7-2011	1330	4f, started 18 seconds early	AM	Sun	(token)
6330	V24	4-7-2011	1330	5f	AM	Mon	(token)
6434	M01	2-7-2011	1500	025 318 30 == 10120 79216 == 318 30 000	CW	Sat	(Spec)
6524	M03	17-7-2011	0820	761/00	CW	Sun	(HFD)
6524	M03	19-7-2011	1535	798/00	CW	Tue	(HFD)
6524	M03	19-7-2011	1140		CW	Tue	(SWL1409)
6524	M03	26-7-2011	1140	ID:786/00	CW	Tue	(SWL1409)
6666	S06s	12-7-2011	1500	537 928 6 86970	AM		(FN)
6755	S06s	13-7-2011	0830	908 5 09981	AM		(FN)
6768	V02a	9-7-2011	0100	SS/YL atencion:	AM	Sat	(westli)
6768	V02a	10-7-2011	0400	SS/YL atencion:	AM	Sun	(westli)
6770	S06	13-7-2011	1800	471 0	AM	Wed	(HFD)
6770	S06	20-7-2011	1800	471 00000	USB	Wed	(OldDog)
6770	S06	27-7-2011	1800	Russian O/M Calling 471 00000	AM		(PPA)
6770	S06	13-7-2011	1800	471 00000	USB	Wed	(Spec)

6770	S06	20-7-2011	1800	471 00000	USB	Wed	(Spec)
6770	S06	27-7-2011	1800	471 00000	USB	Wed	(Spec)
6771	M12	27-7-2011	1829	strings of data 758 758 758 75248 75248 => 34	CW		(PPA)
6773	M89	6-7-2011	1147	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Wed) //3797 and 8040	CW		(JPL-HK)
6773	M89	18-7-2011	1116	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Mon) //8040	CW		(JPL-HK)
6773	M89	24-7-2011	1137	V H2FL (x3) DE DRV8 (x2) (Cont'd) //8040	CW		(JPL-HK)
6773	M89	24-7-2011	1212	V H2FL (x3) DE DRV8 (x2) (Cont'd) //3797	CW		(JPL-HK)
6773	M89	24-7-2011	1358	V H2FL (x3) DE DRV8 (x2) (Cont'd)	CW		(JPL-HK)
6775	S06s	13-7-2011	0820	471 908 5 09981 13428 76845 33890 56743 908 5 00000	USB	Wed	(Spec)
6780	S06s	19-7-2011	0715	374 904 5 19287	AM		(FN)
6781	M01	17-7-2011	0700	025 075 30 = 61672	CW		(FN)
6796	M12	26-7-2011	1456	Male voice. MDZhB MDZhB 215 215 215 35261 352	CW		(ALF)
6802	M12	13-7-2011	1720	463 1	CW	Wed	(HFD)
6802	M12	20-7-2011	1720		CW	Wed	(OldDog)
6802	M12	6-7-2011	1720		CW	Wed	(SWL1409)
6802	M12	27-7-2011	1720	463 - i/p	CW	Wed	(SWL1409)
6804	S11a	15-7-2011	0947	121/22 into 2x5FGs	USB		(ALF)
6815	S06s	13-7-2011	1210	481 267 5 15144	AM		(FN)
6815	S06s	13-7-2011	1210	481 267 5 15144 18553 23110 45722 88532 267 5 00000	USB	Wed	(Spec)
6815	S06s	20-7-2011	1210	481 930 5 49125 24506 75276 45866 25454 930 5 00000	USB	Wed	(Spec)
6815	S06s	20-7-2011	1210	ID:491	USB	Wed	(SWL1409)
6818	M51	27-7-2011	0305	French mil.	CW		(Jon-FL)
6824	M51	12-7-2011	2120	(I:P:)	MCW	Tue	(FMB)
6824	M51	18-7-2011	1800	(i.p.)	MCW	Mon	(FMB)
6824	M51	19-7-2011	0304	(i.p.)	MCW	Tue	(FMB)
6836	M12	11-7-2011	0936	(i.p.) ttt ttt	CW	Mon	(FMB)
6840	M89	21-7-2011	2120	VVV Q2M Q2M Q2M DE NYZ NYZ QSA? k //4860 kHz	CW		(AB-HK)
6840	M89	3-7-2011	0220	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Sun) //10640	CW		(JPL-HK)
6840	M89	3-7-2011	1820	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Sun) //4860	CW		(JPL-HK)
6840	M89	7-7-2011	1420	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Thu) //4860	CW		(JPL-HK)
6840	M89	7-7-2011	1620	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Thu) //4860	CW		(JPL-HK)
6840	M89	8-7-2011	1720	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Fri) //4860	CW		(JPL-HK)
6840	M89	9-7-2011	0320	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Sat) //10640	CW		(JPL-HK)
6840	M89	13-7-2011	1719	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW		(JPL-HK)
6840	M89	14-7-2011	2320	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW		(JPL-HK)
6840	M89	15-7-2011	1925	VVV (x3) Q2M (x3) DE NYZ (x2) (In progress) QSA ? K //4860	CW		(JPL-HK)
6840	M89	15-7-2011	2024	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //4860	CW		(JPL-HK)
6840	M89	15-7-2011	2320	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //10640	CW		(JPL-HK)

6840	M89	16-7-2011	1319	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Sat) //4860	CW		(JPL-HK)
6840	M89	18-7-2011	1119	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Mon) //10640	CW		(JPL-HK)
6840	M89	18-7-2011	1819	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Mon) //4860	CW		(JPL-HK)
6840	M89	21-7-2011	2221	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Thu) //4860	CW		(JPL-HK)
6840	M89	22-7-2011	1319	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Fri) //4860	CW		(JPL-HK)
6840	M89	22-7-2011	1817	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K	CW		(JPL-HK)
6840	M89	23-7-2011	0320	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Sat) //10640	CW		(JPL-HK)
6840	M89	23-7-2011	2120	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Sat) //4860	CW		(JPL-HK)
6840	M89	24-7-2011	1220	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Sun) //10640	CW		(JPL-HK)
6840	M89	24-7-2011	2119	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Sun) //4860	CW		(JPL-HK)
6840	M89	25-7-2011	1220	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Mon) //10640	CW		(JPL-HK)
6840	M89	25-7-2011	1823	VVV (x3) Q2M (x3) DE NYZ (x2) (In Progress) QSA ? K (Mon)	CW		(JPL-HK)
6840	M89	26-7-2011	2019	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Tue) //4860	CW		(JPL-HK)
6840	M89	29-7-2011	1320	(x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Fri) //4860	VVV		(JPL-HK)
6846	M32	28-7-2011	2100	Russian. Mil: 8PGF msg to collective JFQZ	CW		(MPJ)
6855	V02a	11-7-2011	0300	SS/YL atencion:	AM	Mon	(westli)
6877	M42	7-7-2011	1652	Russian Gov.	CROWD-36	Thu	(FMB)
6877	M42	7-7-2011	1652	Russian Gov.	CROWD-36	Thu	(FMB)
6887	G06	14-7-2011	1830	842 973 15 29809 83671 73651	AM		(HS2)
6887	G06	14-7-2011	1830	842 973 15 29809 73651 973 15 00000	USB	Thu	(Spec)
6887	G06	28-7-2011	1830	842 973 15 29829 ... 73651 973 15 00000	USB	Thu	(Spec)
6904	M12	4-7-2011	1740	257 1 2025 79 58248 ... 85444 000 000	CW		(Danix)
6904	M12	4-7-2011	1840	257 1	CW	Mon	(HFD)
6904	M12	4-7-2011	1940	251 1	CW	Mon	(HFD)
6904	M12	7-7-2011	1940	257 1	CW	Thu	(HFD)
6904	M12	25-7-2011	1840	257 1 3254 58 19608 ... 90241 000 000	CW	Mon	(Spec)
6904	M12	25-7-2011	1940	257 1 914 46 39523 ... 55573 000 000	CW	Mon	(Spec)
6922	S06	9-7-2011	1937	366 00000	USB	Sat	(ScanSe)
6940	X06c	6-7-2011	1426	Mazielka	AM		(Danix)
6943	S06	16-7-2011	1900	837 00000	USB		(Danix)
6943	S06	2-7-2011	1900	837 00000	USB	Sat	(Spec)
6948	G06	4-7-2011	0800	215 00000	USB		(Danix)
6983	S06	2-7-2011	1605	134 00000	USB		(Danix)
6983	S06	2-7-2011	1605	134 0	AM	Sat	(HFD)
6983	S06	2-7-2011	1605	134 00000	USB	Sat	(Spec)
6983	S06	16-7-2011	1605	134 00000	USB	Sat	(Spec)
6984	S06	7-7-2011	1905	349 0	AM	Thu	(HFD)
6984	S06	4-7-2011	1857	349 00000	USB	Mon	(OldDog)
6984	S06	4-7-2011	1905	349 00000	USB	Mon	(Spec)
6984	S06	7-7-2011	1905	349 00000	USB	Thu	(Spec)
6984	S06	18-7-2011	1905	349 00000	USB	Mon	(Spec)

6984	S06	21-7-2011	1905	349 00000	USB	Thu	(Spec)
6984	S06	28-7-2011	1905	349 00000	USB	Thu	(Spec)
6984	S06	28-7-2011	1905	349	USB	Thu	(SWL1409)
6986	G11	14-7-2011	0940	275/00	USB		(HS2)
6986	G11	11-7-2011	0940	275/00	USB	Mon	(Spec)
7038.2	MX	3-7-2011	2119	Beacon "L"	CW		(AB)
7038.2	MX	5-7-2011	2102	Beacon "L"	CW		(AB)
7038.2	MX	8-7-2011	2131	Beacon "L"	CW		(AB)
7038.2	MX	17-7-2011	1632	Beacon "L" St. Petersburg	CW		(AB)
7038.2	MX	30-6-2011	1920	Beacon "L"	CW		(IARUMS)
7038.2	MX	3-7-2011	2306	Beacon "L" Sankt Peterburg //8494.2	CW		(MPI)
7038.2	MX	16-7-2011	2150	Letter L	CW	Sat	(ScanSe)
7038.2	MX	3-7-2011	2102	Beacon "L"	CW		(TJ)
7038.2	MX	3-7-2011	2114	Beacon "L"	CW		(TJ)
7038.2	MX	7-7-2011	1655	Beacon "L"	CW		(TJ)
7038.2	MX	7-7-2011	1723	Beacon "L"	CW		(TR2)
7038.7	MX	3-7-2011	2119	Beacon "D"	CW		(AB)
7038.7	MX	5-7-2011	2102	Beacon "D"	CW		(AB)
7038.7	MX	3-7-2011	2306	Beacon "D" Sevastopol	CW		(MPI)
7038.8	MX	3-7-2011	2119	Beacon "P"	CW		(AB)
7038.8	MX	5-7-2011	2102	Beacon "P"	CW		(AB)
7038.8	MX	3-7-2011	2306	Beacon "P" Kaliningrad	CW		(MPI)
7038.8	MX	3-7-2011	2118	Beacon "P"	CW		(TJ)
7038.8	MX	7-7-2011	1655	Beacon "P"	CW		(TJ)
7039	MX	3-7-2011	2119	Beacon "C"	CW		(AB)
7039	MX	3-7-2011	2306	Beacon "C" Moscow	CW		(MPI)
7039	MX	7-7-2011	1655	Beacon "C"	CW		(TJ)
7039.3	MX	7-7-2011	1240	Beacon "K"	CW		(EW)
7039.4	MX	7-7-2011	1240	Beacon "M"	CW		(EW)
7041.6	MX	23-7-2011	2050	Beacon "L". Moved from 7038.2 kHz	CW		(AB)
7041.6	MX	23-7-2011	2050	Beacon "L". Moved from 7038.2 kHz	CW		(CK)
7041.8	MX	24-7-2011	2043	Beacon "L"	CW		(AB)
7041.8	MX	24-7-2011	2252	Beacon "L". Moved again, now from 7041.6 to 7041.8	CW		(HB9CET)
7041.8	MX	24-7-2011	2150	Beacon "L" //8947.8	CW		(MPI)
7041.8	MX	25-7-2011	1622	Beacon "L"	CW		(TJ)
7166	M21	2-6-2011	1730	=99?2130?9????	CW		(IARUMS)
7166	M21	3-6-2011	1728	=99?2128?9????	CW		(IARUMS)
7166	M21	4-6-2011	2025	=99?0025?9????	CW		(IARUMS)
7166	M21	6-6-2011	1630	=99?2030?9????	CW		(IARUMS)
7166	M21	7-6-2011	1705	=99?2105?9????	CW		(IARUMS)
7166	M21	9-6-2011	1655	=99?2055?9????	CW		(IARUMS)
7166	M21	10-6-2011	1713	=99?2113?9????	CW		(IARUMS)
7166	M21	14-6-2011	1901	=99?2301?9????	CW		(IARUMS)
7166	M21	15-6-2011	1729	=99?2129?9????	CW		(IARUMS)
7166	M21	16-6-2011	2003	=99?0003?9????	CW		(IARUMS)
7166	M21	17-6-2011	2019	=99?0019?9????	CW		(IARUMS)
7166	M21	21-6-2011	2020	=99?0020?9????	CW		(IARUMS)
7166	M21	22-6-2011	1632	=99?2032?9????	CW		(IARUMS)
7166	M21	23-6-2011	1712	=99?2112?9????	CW		(IARUMS)
7166	M21	30-6-2011	1731	=99?2131?9????	CW		(IARUMS)

7167	M21	15-7-2011	1827	PVO in progress.	CW	(Danix)
7245	S06s	12-7-2011	0800	418 925 6 66254	AM	(FN)
7245	S06s	12-7-2011	0800	184 925 6 66254 45916 98164 55013 54580 49928 925 6 00000	USB	Tue (Spec)
7335	S06s	13-7-2011	0730	745 928 6 86512	AM	(FN)
7335	S06s	20-7-2011	0730	745 908 6 57883 55835 57259 49623 75847 55064 908 6 0 0 0 0 0	AM	Wed (OldDog)
7335	S06s	13-7-2011	0730	745 928 6 86512 42713 42241 93835 39435 41520 928 6 00000	USB	Wed (Spec)
7335	S06s	20-7-2011	0730	745 908 6 57883 55835 57259 49623 75847 55064 908 6 00000	USB	Wed (Spec)
7437	E07a	14-7-2011	0430	411 1-11006-451/71 =98636	AM	Thu (HFD)
7437	E07a	14-7-2011	0430	411 411 411 000	USB	Thu (Spec)
7473	E07	13-7-2011	2020	147 1 11006 451 71 98636	AM	(FN)
7473	E07a	6-7-2011	2020	147 147 147 000	USB	Wed (Spec)
7473	E07a	13-7-2011	2020	147 1 11006 451 71 98636 48029 000 000	USB	Wed (Spec)
7473	E07a	27-7-2011	2020	147 1 33329 689 63 62624 ... 28461 000 000	USB	Wed (Spec)
7473	E07a	6-7-2011	2020	147 147 147 000	USB	Wed (SWL1409)
7545	S06s	13-7-2011	1230	967 218 5 65556	AM	(FN)
7545	S06s	13-7-2011	1230	967 218 5 65556 74451 77149 63727 04158 218 5 00000	USB	Wed (Spec)
7545	S06s	20-7-2011	1230	967 830 5 13451 19485 73289 63500 63975 830 5 00000	USB	Wed (Spec)
7545	S06s	20-7-2011	1230		USB	Wed (SWL1409)
7568	M89	3-7-2011	1834	V QPZM (x3) DE WOXN (x2) (Cont'd) //4523 (Sun)	CW	(JPL-HK)
7568	M89	3-7-2011	2332	V QPZM (x3) DE WOXN (x2) (Cont'd) (Sun)	CW	(JPL-HK)
7568	M89	5-7-2011	2256	V QPZM (x3) DE WOXN (x2) (Cont'd) //4523 (Tue)	CW	(JPL-HK)
7568	M89	6-7-2011	1408	V QPZM (x3) DE WOXN (x2) (Cont'd) (Wed)	CW	(JPL-HK)
7568	M89	8-7-2011	1735	V QPZM (x3) DE WOXN (x2) (Cont'd) //4523 (Fri)	CW	(JPL-HK)
7568	M89	13-7-2011	1930	V QPZM (x3) DE WOXN (x2) (Cont'd) //4523	CW	(JPL-HK)
7568	M89	15-7-2011	1933	V QPZM (x3) DE WOXN (x2) (Cont'd) //4523	CW	(JPL-HK)
7568	M89	15-7-2011	2308	V QPZM (x3) DE WOXN (x2) (Cont'd)	CW	(JPL-HK)
7568	M89	18-7-2011	1125	V QPZM (x3) DE WOXN (x2) (Cont'd) //4523	CW	(JPL-HK)
7568	M89	18-7-2011	1600	V QPZM (x3) DE WOXN (x2) (Cont'd) //4523	CW	(JPL-HK)
7568	M89	18-7-2011	2145	V QPZM (x3) DE WOXN (x2) (Cont'd) //4523	CW	(JPL-HK)
7568	M89	21-7-2011	1251	V QPZM (x3) DE WOXN (x2) (Cont'd) //4523	CW	(JPL-HK)
7568	M89	22-7-2011	1823	V QPZM (x3) DE WOXN (x2) (Cont'd) //4523	CW	(JPL-HK)
7568	M89	24-7-2011	1225	V QPZM (x3) DE WOXN (x2) (Cont'd)	CW	(JPL-HK)
7568	M89	25-7-2011	1234	V QPZM (x3) DE WOXN (x2) (Cont'd)	CW	(JPL-HK)
7568	M89	25-7-2011	1827	V QPZM (x3) DE WOXN (x2) (Cont'd) //4523	CW	(JPL-HK)
7568	M89	25-7-2011	2103	V QPZM (x3) DE WOXN (x2) (Cont'd) //4523	CW	(JPL-HK)
7568	M89	29-7-2011	1312	ZM (x3) DE WOXN (x2) (Cont'd)	V QP	(JPL-HK)
7582	M89	3-7-2011	2332	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110 (Sun)	CW	(JPL-HK)
7582	M89	9-7-2011	0327	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110 (Sat)	CW	(JPL-HK)
7582	M89	15-7-2011	2326	V 7NPE (x3) DE QV5B (x2) (Cont'd) //5500 //8110	CW	(JPL-HK)
7582	M89	24-7-2011	1228	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL-HK)
7582	M89	24-7-2011	1350	V 7NPE (x3) DE QV5B (x2) (Cont'd) //8110	CW	(JPL-HK)
7602	M89	28-7-2011	2206	V DKG6 DKG6 DKG6 DE 3A7D 3A7D	CW	(Danix)
7602	M89	8-7-2011	1733	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642 (Fri)	CW	(JPL-HK)

7602	M89	13-7-2011	1726	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW		(JPL-HK)
7602	M89	16-7-2011	1802	V DKG6 (x3) DE 3A7D (x2) (Cont'd) //3642	CW		(JPL-HK)
7602	M89	29-7-2011	1739	V DKG6 DKG6 DKG6 DE 3A7D 3A7D	CW		(PPA)
7615	M51	23-7-2011	0519	(i.p.)	MCW	Sat	(FMB)
7627	M12	25-7-2011	0500	613 0	CW	Mon	(HFD)
7650	S06s	12-7-2011	1230	278 459 6 54146	AM		(FN)
7650	S06s	12-7-2011	1230	278 459 6 54146 66941 40521 88695 78126 65351 459 6 00000	USB	Tue	(Spec)
7654	M03	27-7-2011	1448		CW	Wed	(AnUK)
7655	S06s	20-7-2011	0820	471 960 5 94072 ...	AM	Wed	(OldDog)
7718	S06	2-7-2011	1930	366 0	AM	Sat	(HFD)
7718	S06	2-7-2011	1930	366 00000	USB	Sat	(Spec)
7718	S06	16-7-2011	1930	366 00000	USB	Sat	(Spec)
7718	S06	23-7-2011	1930	366 00000	USB	Sat	(Spec)
7730	X06c	28-7-2011	1753	Mazielka. Sequence: 123456	AM		(PPA)
7744	VC01	21-7-2011	0529	Chinese Robot. Barely audible	LSB		(AB-HK)
7744	S06s	12-7-2011	1510	537 928 6 86970	AM		(FN)
7765	S06s	13-7-2011	1200	481 267 5 15144	AM		(FN)
7765	S06	20-7-2011	1200	481 930 5 49125 24506 75276 45866 25454 930 5 00000	USB	Wed	(Spec)
7765	S06s	13-7-2011	1200	481 267 5 15144 18553 23110 45722 88532 267 5 00000	USB	Wed	(Spec)
7765	S06s	20-7-2011	1200	481 930 5 49125	USB	Wed	(SWL1409DE)
7833	M89	14-7-2011	2305	V QPZM (x3) DE WOXN (x2) (Cont'd) //10643	CW		(JPL-HK)
7837	M03	17-7-2011	1320	438/00	CW		(Danix)
7837	M03	20-7-2011	1115	650/00	CW	Wed	(Spec)
7837	M03	21-7-2011	1115	650/00	CW	Thu	(SWL1409)
7837	M03	21-7-2011	1320	437/00	CW	Thu	(SWL1409)
7837	M03	26-7-2011	1115		CW	Tue	(SWL1409)
7837	M03	27-7-2011	1115	650/00	CW	Wed	(SWL1409)
7837	M03	19-7-2011	1115	i/p.	CW	Tue	(SWL1409DE)
7837	M03	20-7-2011	1115	650/00	CW	Wed	(SWL1409DE)
7843	M12	17-7-2011	1910	828 1 4647 213 37090...	CW		(Danix)
7844	E06	30-7-2011	0135	OM/EE 5FGs	USB		(Haz)
7844	E06	23-7-2011	0130	OM/EE 759 206 31 42355 24774 ... 22231 206 31 00000	USB	Sat	(OldDog)
7844	E06	2-7-2011	0130	Russian Man	USB	Sat	(Saber)
7844	E06	24-7-2011	0130	Russian Man	USB	Sun	(Saber)
7844	E06	30-7-2011	0130	Russian Man	USB	Sat	(Saber)
7844	E06	2-7-2011	0130	759 682 30 22702 20704 682 30 00000	USB	Sat	(Spec)
7844	E06	3-7-2011	0130	759 682 30 22702 20704 682 30 00000	USB	Sun	(Spec)
7844	E06	9-7-2011	0130	759 804 31 77495 54027 804 31 00000	USB	Sat	(Spec)
7844	E06	16-7-2011	0130	759 168 30 68140 26066 168 30 00000	USB	Sat	(Spec)
7844	E06	17-7-2011	0130	759 168 30 68140 26066 168 30 00000	USB	Sun	(Spec)
7844	E06	23-7-2011	0130	759 206 31 42355 22231 206 31 00000	USB	Sat	(Spec)
7844	E06	24-7-2011	0130	759 206 31 42355 22231 206 31 00000	USB	Sun	(Spec)
7844	E06	3-7-2011	0001	ip	USB	Sun	(stefan)
7854	X06c	11-7-2011	0827	123456	USB	Mon	(FMB)
7855	X06c	14-7-2011	1951	Mazielka. Sequence: 123456	AM		(Danix)
7855	X06	27-7-2011	1846	Mazielka	AM		(PPA)
7865	M12	7-7-2011	2154	5FGs ends with 000 000á	CW		(GN2)

7889	S06s	11-7-2011	1610	176 820 5 81281 58256 24553 45552 15043 820 5 00000	USB	Mon	(Spec)
7910	X06c	11-7-2011	0117	Mazielka. Sequence: 123456	AM		(Dan-E)
7910	X06c	10-7-2011	2214	Mazielka. Sequence: 123456. Long transmission	AM		(GN2)
7931	M12	4-7-2011	1720	257 1 2025 79 58248 ... 85444 000 000	CW		(Danix)
7931	M12	4-7-2011	1820	257 1 6868 53 28980 ... 42382 000 000	CW		(Danix)
7931	M12	4-7-2011	1920	257 1 62465 ... 46754 000 000	CW		(Danix)
7931	M12	4-7-2011	1820	257 1	CW	Mon	(HFD)
7931	M12	4-7-2011	1920	257 1	CW	Mon	(HFD)
7931	M12	7-7-2011	1920	257 1	CW	Thu	(HFD)
7931	M12	4-7-2011	1820	257 1 6868 53 28980 42382 000 000	CW	Mon	(Spec)
7931	M12	11-7-2011	1820	257 1 4264 45 22910	CW	Mon	(Spec)
7931	M12	25-7-2011	1820	257 1 3254 58 19608 ... 90241 000 000	CW	Mon	(Spec)
7931	M12	25-7-2011	1920	257 1 914 46 39523 ... 55573 000 000	CW	Mon	(Spec)
7931	M12	25-7-2011	1820	ID:257	CW	Mon	(SWL1409)
7954	M42	5-7-2011	0955	Russian Gov/Intel. "... =82812703473200042758	Baudot 200/500		(ALF)
7961	XPA2	19-7-2011	2010	05167 00001 00000 10140	MFSK		(Danix)
7962	XPA2	7-7-2011	2010	msg	MFSK	Thu	(HFD)
7979	M12	6-7-2011	2120	398 000	CW		(Danix)
7979	M12	20-7-2011	2120	398 0	CW	Wed	(HFD)
7979	M12	27-7-2011	2120	398 1 938 97 08731 ... 99224 000 000	CW	Wed	(Spec)
7979	M12	6-7-2011	2120	End 2122z.	CW	Wed	(SWL1409)
7982	S06	11-7-2011	1900	349 00000	USB	Mon	(Spec)
7982	S06	25-7-2011	1900	349 00000	USB	Mon	(Spec)
8000	X06c	10-7-2011	1120	Mazielka. Sequence: 123456	AM		(AB)
8000	X06c	10-7-2011	1035	123456	USB	Sun	(ScanSe)
8000	X06c	10-7-2011	1112	Mazielka. Sequence: 123456	AM		(tING)
8040	M89	6-7-2011	1147	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Wed) //3797 and 6773	CW		(JPL-HK)
8040	M89	8-7-2011	1728	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Fri) //3797	CW		(JPL-HK)
8040	M89	9-7-2011	0317	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Sat)	CW		(JPL-HK)
8040	M89	18-7-2011	1116	V H2FL (x3) DE DRV8 (x2) (Cont'd) (Mon) //6773	CW		(JPL-HK)
8040	M89	24-7-2011	1137	V H2FL (x3) DE DRV8 (x2) (Cont'd) //6773	CW		(JPL-HK)
8047	M12	13-7-2011	1700	463 1	CW	Wed	(HFD)
8047	M12	20-7-2011	1700		CW	Wed	(OldDog)
8047	M12	6-7-2011	1700	ip	CW	Wed	(SWL1409)
8070	M51	22-7-2011	0732	(i.p.)	MCW	Fri	(FMB)
8070	M51	23-7-2011	0515		MCW	Sat	(FMB)
8083	E06	17-7-2011	1120	829 00000	AM		(Danix)
8083	E06	17-7-2011	1120	829 00000	USB	Sun	(Spec)
8087	M12	7-7-2011	2242	5FGs ends with 000 000á	CWá		(GN2)
8088	E11	14-7-2011	1729	416/00	USB		(HS2)
8088	E11	28-7-2011	1730	415 / 31 => atention 74819	USB		(PPA)
8088	E11	28-7-2011	1730	415/31	USB		(PPA)
8088	E11a	28-7-2011	1730	415/31 Attention 74819 ... 33940 Out	USB	Thu	(Spec)
8088	E11a	28-7-2011	1730	415/31 74819	USB	Thu	(SWL1409)
8094	X06	13-7-2011	1102	Mazielka. Sequence: 421542	AM		(HS2)
8100	X06b	10-7-2011	1158	Mazielka. Sequence: 456	AM		(AB)
8100	X06b	10-7-2011	1312	Mazielka. Sequence: 456	AM		(AB)

8100	X06c	7-7-2011	0245	Mazielka. Extreme long transmission.	AM		(Dan)
8100	X06c	7-7-2011	2230	Mazielka. Sequence: 123456	AM		(Dan)
8100	X06b	11-7-2011	0122	Mazielka. Sequence: 234	AM		(Dan-E)
8100	X06c	11-7-2011	1014	123456	USB	Mon	(FMB)
8100	X06c	12-7-2011	1514	123456	USB	Tue	(FMB)
8100	X06b	10-7-2011	2155	Mazielka.Sequence: 234. Very long transmission	AM		(GN2)
8100	X06b	4-7-2011	0643	Sequence 12332	USB	Mon	(ScanSe)
8100	X06b	10-7-2011	1253	1- 2- 3	USB	Sun	(ScanSe)
8100	X06c	1-7-2011	2146	123456	AM	Fri	(ScanSe)
8100	X06c	10-7-2011	1116	Mazielka. Sequence: 123456	AM		(tING)
8100	X06c	10-7-2011	1317	Mazielka. Sequence: 123	AM		(tING)
8105	X06	13-7-2011	0753	Mazielka. Sequence: 314265	AM		(TJ)
8110	M89	3-7-2011	2332	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582 (Sun)	CW		(JPL-HK)
8110	M89	9-7-2011	0327	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582 (Sat)	CW		(JPL-HK)
8110	M89	15-7-2011	2326	V 7NPE (x3) DE QV5B (x2) (Cont'd) //4225 //7582	CW		(JPL-HK)
8110	M89	24-7-2011	1228	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW		(JPL-HK)
8110	M89	24-7-2011	1350	V 7NPE (x3) DE QV5B (x2) (Cont'd) //7582	CW		(JPL-HK)
8116	M12	7-7-2011	1740	(i.p.)	MCW	Thu	(FMB)
8116	M12	7-7-2011	1841	(i.p.)	MCW	Thu	(FMB)
8116	M12	7-7-2011	1840	124 1	CW	Thu	(HFD)
8116	M12	14-7-2011	1840	124 1 1876 64 55544 93483 000 000	CW	Thu	(Spec)
8127	E07	12-7-2011	0700	131 131 131 000	AM		(FN)
8127	E07	14-7-2011	0700	131 0	AM	Thu	(HFD)
8127	E07a	14-7-2011	0700	131 000	AM		(HS2)
8127	E07	14-7-2011	0700	131 131 131 000	USB	Thu	(Spec)
8135	M08a	8-7-2011	2300	5f cut nums: 86681 68811 62432	CW	Fri	(westli)
8135	M08a	19-7-2011	2300	5f cut nums: 20462 88131 18422	CW	Tue	(westli)
8136	M32	30-7-2011	1912	RDL: Russian navy unid transmitter site.	CW		(PPA)
8137	E07A	14-7-2011	0450	411 1-11006	AM	Thu	(HFD)
8137	E07a	14-7-2011	0450	411 1 11006 451 71 98636 51931 48029	AM		(HS2)
8137	E07a	14-7-2011	0450	411 411 411 000	USB	Thu	(Spec)
8144	M42	11-7-2011	1325	Russian Gov.	CROWD-36	Mon	(FMB)
8145	M12	9-7-2011	0215	in progress. Ends with 000 000	CW		(ALF)
8173	E07a	6-7-2011	2000	147 000	AM		(Danix)
8173	E07	13-7-2011	2000	147 1 11006 451 71 98636	AM		(FN)
8173	E07a	6-7-2011	2000	147 147 147 000	USB	Wed	(Spec)
8173	E07a	13-7-2011	2000	147 1 11006 451 71 98636 48029 000 000	USB	Wed	(Spec)
8173	E07a	27-7-2011	2000	147 1 33329 689 63 62624 ... 28461 000 000	USB	Wed	(Spec)
8173	E07a	6-7-2011	2000	147 147 147 000. End 2002z.	USB	Wed	(SWL1409)
8173	E07a	20-7-2011	2000	147 1 000	USB	Wed	(SWL1409)
8186	V02a	2-7-2011	0800	SS/YL atencion: 24842 48672 40821	AM	Sat	(westli)
8220	S06s	13-7-2011	1240	967 218 5 65556	AM		(FN)
8220	S06s	13-7-2011	1240	967 218 5 65556 74451 77149 63727 04158 218 5 00000	USB	Wed	(Spec)
8220	S06s	20-7-2011	1240	967 830 5 13451 19485 73289 63500 63975 830 5 00000	USB	Wed	(Spec)
8220	S06s	20-7-2011	1240	i/p	USB	Wed	(SWL1409DE)
8345	M32	30-7-2011	1824	RMZW: Russian navy ship RIT DE RMZW	CW		(PPA)
8395	M89	12-7-2011	2320	V RXP7 RXP7 RXP7 DE CZT2 CZ2T	CW		(ALF)

8494.2	MX	5-7-2011	2111	Beacon "L"	CW		(AB)
8494.2	MX	8-7-2011	2131	Beacon "L"	CW		(AB)
8494.2	MX	3-7-2011	2306	Beacon "L" Sankt Peterburg //7038.2	CW		(MPJ)
8494.2	MX	3-7-2011	2131	Beacon "L"	CW		(TJ)
8494.2	MX	4-7-2011	1637	Beacon "L"	CW		(TJ)
8494.2	MX	7-7-2011	1655	Beacon "L"	CW		(TJ)
8494.7	MX	7-7-2011	1457	Beacon "D"	CW		(CK)
8494.8	MX	7-7-2011	1457	Beacon "P"	CW		(CK)
8494.8	MX	7-7-2011	1655	Beacon "P"	CW		(TJ)
8495.3	MX	7-7-2011	1240	Beacon "K"	CW		(EW)
8495.4	MX	7-7-2011	1240	Beacon "M"	CW		(EW)
8497.8	MX	24-7-2011	2043	Beacon "L"	CW		(AB)
8497.8	MX	25-7-2011	0819	Beacon "L"	CW		(Joe)
8497.8	MX	24-7-2011	2150	Beacon "L" //7041.8	CW		(MPJ)
8497.8	MX	25-7-2011	2150	Beacon "L"	CW		(MPJ)
8497.8	MX	24-7-2011	2130	SLB "L"	CW	Sun	(SWL1409)
8497.8	MX	24-7-2011	2141	SLB "L"	CW	Sun	(SWL1409DE)
8497.8	MX	25-7-2011	1622	Beacon "L"	CW		(TJ)
8497.9	MX	23-7-2011	2050	Beacon "L". Moved from 8494.2 kHz	CW		(CK)
8530	S11a	12-7-2011	0915	484/00	USB	Tue	(Spec)
8654	M12	11-7-2011	1822		CW	Mon	(FMB)
9040	V02a	13-7-2011	0900	SS/YL atencion: 22021 46652 87862	AM	Wed	(westli)
9040	V02a	20-7-2011	0900	SS/YL atencion: 33871 83681 30721	AM	Wed	(westli)
9060	M12	9-7-2011	0115	in progress. Ends with 000 000	CW		(ALF)
9060	M12	11-7-2011	1911	in progress. Ends with 000 000	CW		(Danix)
9060	M12	7-7-2011	2242	5FGs ends with 000 000á	CWá		(GN2)
9061	E06	16-7-2011	0030	759 (R3) 168 168 30 30 68140 51707 etc.	AM		(Daunt)
9061	E06	30-7-2011	0026	759 ... message was 30 seconds late past 00:3	AM		(Daunt)
9061	E06	31-7-2011	0030	Msg 759 ...	AM		(Daunt)
9061	E06	1-7-2011	0030	Strong signal	AM	Fri	(IP-NL)
9061	E06	3-7-2011	0030	OM/EE 759 682 30 22702 62511 34451 ... 20704 682 30 00000	AM	Sun	(OldDog)
9061	E06	23-7-2011	0030	OM/EE 759 206 31 42355 24774 ... 22231 206 31 00000	USB	Sat	(OldDog)
9061	E06	30-7-2011	0038	OM/EE 5FGs	USB		(PPA)
9061	E06	17-7-2011	0034	"759"	AM		(RR2)
9061	E06	17-7-2011	0030	Russian Man	USB	Sun	(Saber)
9061	E06	3-7-2011	0030		USB	Sun	(ScanSui)
9061	E06	2-7-2011	0030	759 682 30 22702 20704 682 30 00000	USB	Sat	(Spec)
9061	E06	3-7-2011	0030	759 682 30 22702 20704 682 30 00000	USB	Sun	(Spec)
9061	E06	9-7-2011	0030	ip	USB	Sat	(Spec)
9061	E06	16-7-2011	0030	759 168 30 68140 26066 168 30 00000	USB	Sat	(Spec)
9061	E06	17-7-2011	0030	759 168 30 68140 26066 168 30 00000	USB	Sun	(Spec)
9061	E06	23-7-2011	0030	759 206 31 42355 22231 206 31 00000	USB	Sat	(Spec)
9061	E06	24-7-2011	0030	759 206 31 42355 22231 206 31 00000	USB	Sun	(Spec)
9063	SK01	3-7-2011	0630	in progress	RDFt	Sun	(AgBr)
9063	M08a	1-7-2011	0800	5f cut nums: ..111 86671 42202	MCW	Fri	(westli)
9063	M08a	8-7-2011	0800	5f cut nums: 50262 07432 44562	MCW	Fri	(westli)
9063	M08a	15-7-2011	0800	5f cut nums: 26611 02472 64272	MCW	Fri	(westli)
9065	S06	16-7-2011	2000	703 00000	USB		(Danix)
9065	S06	16-7-2011	2000	703 00000	USB	Sat	(Spec)

9110	S06s	13-7-2011	1910	371 498 5 34752	AM		(FN)
9110	S06s	13-7-2011	1910	371 498 5 34752 29573 29345 62055 14415 498 5 00000	USB	Wed	(Spec)
9110	S06s	20-7-2011	1910	371 954 6 44529 54429 75412 52575 55254 25737 954 6 00000	USB	Wed	(Spec)
9112	M08a	1-7-2011	1000	5f cut nums: 88142 26101 81671	MCW	Fri	(westli)
9112	M08a	3-7-2011	1000	5f cut nums: 36741 516..	MCW	Sun	(westli)
9112	M08a	8-7-2011	1000	5f cut nums: 41061 32212 52681	MCW	Fri	(westli)
9112	M08a	10-7-2011	1000	5f cut nums: 87371 03632 77611 Missed lead-off ID.	MCW	Sun	(westli)
9112	M08a	15-7-2011	1000	5f cut nums: 56221 03351 58102	MCW	Fri	(westli)
9127	M12	25-7-2011	0520	613 0	CW	Mon	(HFD)
9137	E07A	14-7-2011	0510	411 1-11006	AM	Thu	(HFD)
9153	M08a	8-7-2011	0700	5f cut nums: 50262 07432 44562	MCW	Fri	(westli)
9153	M08a	15-7-2011	0700	5f cut nums: 26611 Up late IP.	MCW	Fri	(westli)
9164	M12	7-7-2011	1808	(i.p.)	MCW	Thu	(FMB)
9164	M12	7-7-2011	1836	(i.p.)	MCW	Thu	(FMB)
9176	M12	4-7-2011	1704	i/p	CW		(Danix)
9176	M12	4-7-2011	1800	257 1 6868 53 28980 ... 42382 000 000	CW		(Danix)
9176	M12	4-7-2011	1904	i/p	CW		(Danix)
9176	M12	4-7-2011	1800	257 1-6868/53= 28980	CW	Mon	(HFD)
9176	M12	4-7-2011	1900	257 1-2711/92= 62465	CW	Mon	(HFD)
9176	M12	7-7-2011	1900	257 1	CW	Thu	(HFD)
9176	M12	4-7-2011	1800	257 1 6868 53 28980 42382 000 000	CW	Mon	(Spec)
9176	M12	25-7-2011	1800	257 1 3254 58 19608 ... 90241 000 000	CW	Mon	(Spec)
9176	M12	25-7-2011	1800	ID:257	CW	Mon	(SWL1409)
9192	VC01	2-7-2011	0605	Chinese Robot. Barely audible	USB		(AB-HK)
9192	VC01	3-7-2011	0616	Chinese Robot	USB		(AB-HK)
9192	VC01	6-7-2011	0537	Chinese Robot	USB		(AB-HK)
9213	M42	27-7-2011	1716	Russian diplo	CROWD-36		(PPA)
9222	M21	7-7-2011	1241	PVO time strings =99?1640?9?????	CW		(TJ)
9222	M21	13-7-2011	1411	Timestrings =99?1811?9?????	CW		(TJ)
9240	V02a	6-7-2011	1000	Cuban Intel. "Atencion" into 5f groups.á	AM		(RR2)
9240	V02a	13-7-2011	1000	SS/YL atencion: 22021 46652 87862	AM	Wed	(westli)
9240	V02a	20-7-2011	1000	SS/YL atencion: 33871 83681 30721	AM	Wed	(westli)
9242	XPA	7-7-2011	1810	(i.p.)	MFSK	Thu	(FMB)
9243	M12	17-7-2011	1850	828 1 4647 213 37090...	CW		(Danix)
9243	XPA	5-7-2011	1810	922 1 00772 00183 17589 ... 57377	MFSK		(Danix)
9243	XPA	12-7-2011	1810	922 1 00898 00137 35995... 34123 +++++	MFSK		(FN)
9243	XPA	7-7-2011	1810	msg	MFSK	Thu	(HFD)
9243	XPA	5-7-2011	1810	ip	MFSK	Tue	(SWL1409)
9243	XPA	28-7-2011	1810	ip	MFSK	Thu	(SWL1409)
9250	S28	30-7-2011	0220	Harmonic	USB		(Daunt)
9256	S06s	11-7-2011	1600	176 820 5 81281 58256 24553 45552 15043 820 5 00000	USB	Mon	(Spec)
9262	M12	7-7-2011	1722	(i.p.) ttt ttt	MCW	Thu	(FMB)
9262	XPA2	7-7-2011	1950	msg	MFSK	Thu	(HFD)
9264	M12	7-7-2011	1820	124 1	CW	Thu	(HFD)
9264	M12	14-7-2011	1820	124 1 1876 64 55544 93483 000 000	CW	Thu	(Spec)
9288	X06	22-7-2011	0750	Mazielka. Sequence: 356412	AM		(GN2)
9300	X06b	22-7-2011	0701	Mazielka	AM		(GN2)

9301	M14	12-7-2011	1655	545 (x3) ttttt (R5)...1t/ 21t 1t == 12852 127t5 99691 3tt68...48265== 1 tt1 1t 1	CW	Tue	(FMB)
9327	E07	12-7-2011	0720	131 131 131 000	AM		(FN)
9327	E07	14-7-2011	0720	131 0	AM	Thu	(HFD)
9327	E07	14-7-2011	0720	131 131 131 000	USB	Thu	(Spec)
9379	M12	6-7-2011	2100	398 000	CW		(Danix)
9379	M12	20-7-2011	2100	398 0	CW	Wed	(HFD)
9379	M12	27-7-2011	2100	398 1 938 97 08731 ... 99224 000 000	CW	Wed	(Spec)
9379	M12	6-7-2011	2100	ip	CW	Wed	(SWL1409)
9450	E25	22-7-2011	1229	555 2270 2111 5280 4745 5126 8044 0139 4559 7	USB		(AB)
9610	E11	20-7-2011	1045	469/00	USB	Wed	(Spec)
9670	S06s	12-7-2011	0810	418 925 6 66254	AM		(FN)
9670	S06s	13-7-2011	0850	328 497 5 09128	AM		(FN)
9670	S06s	12-7-2011	0810	184 925 6 66254 45916 98164 55013 54580 49928 925 6 00000	USB	Tue	(Spec)
9670	S06s	13-7-2011	0850	328 497 5 09128 73645 67843 90128 78921 497 5 00000	USB	Wed	(Spec)
9725	V13	1-7-2011	0520	New Star in progress	USB		(AB-HK)
9725	V13	2-7-2011	0600	New Star. Flute tone + coded messages	USB		(AB-HK)
9725	V13	3-7-2011	0615	New Star	USB		(AB-HK)
9725	V13	5-7-2011	0500	New Star. Flute tune followed by coded messages	USB		(AB-HK)
9725	V13	5-7-2011	0626	New Star in progress	USB		(AB-HK)
9725	V13	6-7-2011	0729	New Star in progress	AM		(AB-HK)
9725	V13	7-7-2011	0510	New Star in progress	USB		(AB-HK)
9725	V13	9-7-2011	0519	New Star in progress	USB		(AB-HK)
9725	V13	13-7-2011	0600	New Star. Flute tune + coded messages	AM		(AB-HK)
9725	V13	15-7-2011	0503	New Star	USB		(AB-HK)
9725	V13	18-7-2011	1216	New Star	USB		(AB-HK)
9725	V13	18-7-2011	1322	New Star	USB		(AB-HK)
9725	V13	20-7-2011	0500	New Star. Flute tune + coded messages	USB		(AB-HK)
9725	V13	21-7-2011	0526	New Star in progress	USB		(AB-HK)
9965	S06s	15-7-2011	0643	934 00000	AM		(HS2)
9967	XPA	12-7-2011	1440	589 000 02851 00001 10140 +++++	MFSK		(FN)
9967	XPA	17-7-2011	1440	589 1 00548 00133 06822 ... 73201 +++++	MFSK		(FN)
9967	XPA	19-7-2011	1440	msg	MFSK	Tue	(HFD)
10120	S06s	13-7-2011	0840	328 497 5 09128	AM		(FN)
10120	S06s	13-7-2011	0840	328 497 5 09128 73645 67843 90128 78921 497 5 00000	USB	Wed	(Spec)
10125	Psy	31-7-2011	1255	Psy-Ops Lybia	USB		(MOR)
10125	Psy	17-7-2011	1240	Psy-ops transmission to Libya in Arabic and English	USB		(YM)
10126	E07	13-7-2011	1740	441 1 718 62 23281	AM		(FN)
10126	E07	3-7-2011	1740	441 1	AM	Sun	(HFD)
10126	E07	20-7-2011	1740	441 1	USB	Wed	(OldDog)
10126	E07	3-7-2011	1740	441 1 833 42 69195 84527 000 000	USB	Sun	(Spec)
10165	X06c	12-7-2011	1606	123456	USB	Tue	(FMB)
10170	S06s	13-7-2011	1900	371 498 5 34752	AM		(FN)
10170	S06s	13-7-2011	1900	371 498 5 34752 29573 29345 62055 14415 498 5 00000	USB	Wed	(Spec)
10170	S06s	20-7-2011	1900	371 954 6 44529 54429 75412 52575 55254 25737 954 6 00000	USB	Wed	(Spec)

10172	M12	19-7-2011	0420	111 (x3) 1	MCW	Tue	(FMB)
10178	S06	16-7-2011	1900	703 00000	USB		(Danix)
10210	E11	14-7-2011	0930	270/00	USB		(HS2)
10210	E11	20-7-2011	0930	270/00 Fair QRN2	USB	Wed	(Spec)
10230	S06s	11-7-2011	1200	831 425 6 85558 44474 41352 52168 55268 75870 425 6 00000	USB	Mon	(Spec)
10230	S06s	18-7-2011	1200	831 907 5 08644 25457 907 5 00000	USB	Mon	(Spec)
10230	S06s	25-7-2011	1200	831 907 5 08644 28952 60267 75668 25455 907 5 00000	USB	Mon	(Spec)
10243	XPA	5-7-2011	1750	922 1 00772 00183 17589 ... 57377	MFSK		(Danix)
10243	XPA	12-7-2011	1750	922 1 00898 00137 35995... 34123 +++++	MFSK		(FN)
10243	XPA	7-7-2011	1750	msg	MFSK	Thu	(HFD)
10243	XPA	28-7-2011	1750	ip	MFSK	Thu	(SWL1409)
10261	XPA2	19-7-2011	1930	05167 00001 00000 10140	MFSK		(Danix)
10262	XPA2	7-7-2011	1930	msg	MFSK	Thu	(HFD)
10343	M12	7-7-2011	1800	124(x3) 1	MCW	Thu	(FMB)
10343	M12	7-7-2011	1800	124 1	CW	Thu	(HFD)
10343	M12	28-7-2011	1800	124	CW	Thu	(SWL1409)
10404	Psy	19-7-2011	1312	Psy-Ops messages towards Libya	USB		(AB)
10404	Psy	2-7-2011	1350	NATO Psyop transmission	USB		(AB2)
10404	Psy	19-7-2011	1018	Psy-Ops messages towards Libya	USB		(GN2)
10432	M08a	3-7-2011	0900	in progress	AM	Sun	(AgBr)
10432	M08a	1-7-2011	0900	5f cut nums: 88142 26101 81671	MCW	Fri	(westli)
10432	M08a	3-7-2011	0900	5f cut nums: 36741 55601 12682	MCW	Sun	(westli)
10432	M08a	15-7-2011	0900	5f cut nums: Up late IP.	MCW	Fri	(westli)
10547	E07	7-7-2011	2030	553 0	AM	Thu	(HFD)
10547	E07	7-7-2011	2030	553 553 553 000	USB	Thu	(Spec)
10547	E07	14-7-2011	2030	553 553 553 000	USB	Thu	(Spec)
10547	E07	28-7-2011	2030	553 553 553 000	AM	Thu	(Spec)
10600	X06c	10-7-2011	1327	Mazielka. Sequence: 123456	AM		(tING)
10640	M89	3-7-2011	0220	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Sun) //6840	CW		(JPL-HK)
10640	M89	9-7-2011	0320	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Sat) //6840	CW		(JPL-HK)
10640	M89	14-7-2011	2320	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW		(JPL-HK)
10640	M89	15-7-2011	2320	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K //6840	CW		(JPL-HK)
10640	M89	18-7-2011	1119	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Mon) //6840	CW		(JPL-HK)
10640	M89	23-7-2011	0320	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Sat) //6840	CW		(JPL-HK)
10640	M89	24-7-2011	1220	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Sun) //6840	CW		(JPL-HK)
10640	M89	25-7-2011	1220	VVV (x3) Q2M (x3) DE NYZ (x2) (R5) QSA ? K (Mon) //6840	CW		(JPL-HK)
10643	M89	9-7-2011	0325	V QPZM (x3) DE WOXN (x2) (Cont'd) (Sat)	CW		(JPL-HK)
10643	M89	14-7-2011	2305	V QPZM (x3) DE WOXN (x2) (Cont'd) //7833	CW		(JPL-HK)
10843	M12	17-7-2011	1830	828 1 4647 213 37090...	CW		(Danix)
10857	M08a	13-7-2011	1400	5f cut nums: 76761 00801 2505.	CW	Wed	(westli)
10867	XPA	17-7-2011	1420	589 1 00548 00133 06822 ... 73201	MFSK		(Danix)
10867	XPA	12-7-2011	1420	589 000 02851 00001 10140 +++++	MFSK		(FN)
10867	XPA	19-7-2011	1420	msg	MFSK	Tue	(HFD)

10871.9	MX	7-7-2011	1655	Beacon "S"	CW		(TJ)
10872.2	MX	2-7-2011	1837	Beacon "F" Vladivostok	CW		(FBA)
10872.3	MX	7-7-2011	1240	Beacon "K"	CW		(EW)
10872.8	MX	3-7-2011	0900	Beacon "P"	CW		(FBA)
10872.8	MX	16-7-2011	0815	Beacon "P"	CW		(PPA)
10872.8	MX	7-7-2011	1655	Beacon "M"	CW		(TJ)
10943	XPA	5-7-2011	1730	922 1 00772 00183 17589 ... 57377	MFSK		(Danix)
10943	XPA	12-7-2011	1730	922 1 00898 00137 35995... 34123 +++++	MFSK		(FN)
10943	XPA	7-7-2011	1730	msg	MFSK	Thu	(HFD)
10943	XPA	5-7-2011	1730	ip	MFSK	Tue	(SWL1409)
11087	M51	6-7-2011	0938	French Mil. Usual recorded 5 let groups tape	CW		(GN2)
11090	X06a	4-7-2011	1139	Mazielka. Sequence: 345-43. X06a for 1 minute	USB		(Danix)
11090	X06a	11-7-2011	0733	Mazielka. Sequence: 121212	AM		(Danix)
11090	X06b	4-7-2011	1130	Mazielka	USB		(Danix)
11090	X06b	4-7-2011	1140	Mazielka	USB		(Danix)
11090	X06b/X06a	4-7-2011	1134	Mazielka. X06a and X06b mix	USB		(Danix)
11090	X06c	7-7-2011	1223	123456	USB	Thu	(FMB)
11124	M42	7-7-2011	1902	Russian Gov/Intel.	FSK 200/500	Thu	(FMB)
11155	M32	30-7-2011	1743	RIT: Navy Severomorsk RHC93 DE RIT QSA3	CW		(PPA)
11401	M51	29-7-2011	2336	BT NR 13 J 27 01:29:33 1983 BT	CW		(haz)
11432	M08a	8-7-2011	0900	5f cut nums: 41061 32212 52681	MCW	Fri	(westli)
11442	M23	2-7-2011	1402	505 (In progress) (Long Zero) (Sat) //12170	CW		(JPL-IT)
11442	M23	2-7-2011	1402	505 (In progress) (Long Zero) (Sat) //12170	CW		(JPL-IT)
11442	M23	2-7-2011	1702	505 (In progress) (Long Zero) (Sat) //12170	CW		(JPL-IT)
11442	M23	2-7-2011	1702	505 (In progress) (Long Zero) (Sat) //12170	CW		(JPL-IT)
11454	E07	17-7-2011	1720	441 000	AM		(Danix)
11454	E07	17-7-2011	1720	441 1 631 79 75680 ... 72292 000 000	AM		(Danix)
11454	E07	13-7-2011	1720	441 1 718 62 23281	AM		(FN)
11454	E07	3-7-2011	1720	441 1	AM	Sun	(HFD)
11454	E07	3-7-2011	1720	441 1 833 42 69195 84527 000 000	USB	Sun	(Spec)
11454	E07	13-7-2011	1720	441 1 718 62 23281 25942 000 000	USB	Wed	(Spec)
11454	E07	17-7-2011	1720	441 441 441 000	AM	Sun	(Spec)
11454	E07	27-7-2011	1720	441	AM	Wed	(SWL1409)
11472	M12	18-7-2011	1340	944 1	CW	Mon	(HFD)
11472	M12	18-7-2011	1340	ID944	CW	Mon	(SWL1409)
11485	M42	23-7-2011	1216	Russian Gov/Intel	FSK 200/500	Sat	(FMB)
11500	X06c	10-7-2011	1207	Mazielka. Sequence: 123456 //12100 kHz	AM		(AB)
11500	X06c	1-7-2011	1158	123456	USB	Fri	(ScanSe)
11500	X06c	10-7-2011	1158	123456	USB	Sun	(ScanSe)
11500	X06c	10-7-2011	1330	Mazielka. Sequence: 123456	AM		(tING)
11512	E07	6-7-2011	1940	845 1 604 30 26561 ... 49226 000 000	AM		(Danix)
11512	E07	4-7-2011	1940	845 1 604 30 26561 49226 000 000	USB	Mon	(Spec)
11512	E07	6-7-2011	1940	845 1 604 30 26561 49226 000 000	USB	Wed	(Spec)
11539	E07	7-7-2011	2010	553 0	AM	Thu	(HFD)
11539	E07	7-7-2011	2010	Heavy QRM	USB	Thu	(Spec)
11539	E07	14-7-2011	2010		USB	Thu	(Spec)
11539	E07	28-7-2011	2010	553 553 553 000	AM	Thu	(Spec)
11565	M08a	14-7-2011	0400	5f cut nums: 24812 44511 27412	CW	Thu	(westli)
11567	XPA	17-7-2011	1400	589 1 00548 00133 06822 ... 73201	MFSK		(Danix)
11567	XPA	12-7-2011	1400	589 000 02851 00001 10140 +++++	MFSK		(FN)

11567	XPA	17-7-2011	1400	589 1 00548 00133 06822 ... 73201 +++++	MFSK		(FN)
11567	XPA	19-7-2011	1400	msg	MFSK	Tue	(HFD)
11581	S11a	1-7-2011	1020	426/00	USB	Fri	(Spec)
11830	S06s	13-7-2011	0740	745 928 6 86512	AM		(FN)
11830	S06s	13-7-2011	0740	745 928 6 86512 42713 42241 93835 39435 41520 928 6 00000	USB	Wed	(Spec)
11830	S06s	20-7-2011	0740	745 908 6 57883 55835 57259 49623 75847 55064 908 6 00000	USB	Wed	(Spec)
12094	X06	15-7-2011	0835	Mazielka. Sequence: 324615	USB	Fri	(ScanSe)
12100	X06c	10-7-2011	1136	Mazielka. Sequence: 123456	AM		(AB)
12100	X06c	10-7-2011	1207	Mazielka. Sequence: 1234567 //11500 kHz	AM		(AB)
12100	X06c	10-7-201	1720	Mazielka. Sequence: 123456	AM		(Dan)
12100	X06c	10-7-2011	1720	Mazielka. Sequence: 123456	AM		(Dan)
12100	X06c	11-7-2011	0120	Mazielka. Sequence: 123456	AM		(Dan-E)
12100	X06c	6-7-2011	0843	Mazielka. Sequence: 123456 On air till 0928	USB		(Danix)
12100	X06c	12-7-2011	1515	123456	AM		(FN)
12100	X06c	6-7-2011	0950	Mazielka. Sequence: 123456	AM		(GN2)
12100	X06c	6-7-2011	0950	Mazielka. Sequence: 123456 On air till 0952	USB		(GN2)
12100	X06c	6-7-2011	1034	Mazielka. Sequence: 123456	USB		(GN2)
12100	X06c	6-7-2011	1340á	Mazielkaá	AM		(GN2)
12100	X06c	6-7-2011	1516á	Mazielkaá	AM		(GN2)
12100	X06c	10-7-2011	2150á	Mazielka. Sequence: 123456	AM		(GN2)
12100	X06c	12-7-2011	1150	Mazielka. 2 transmitters with rising scale	AM		(GN2)
12100	X06c	7-7-2011	0610	Mazielka	AM		(HS2)
12100	X06c	6-7-2011	0819	Mazielka. Sequence: 123456	AM		(PPA)
12100	X06c	10-7-2011	1137	123456	USB	Sun	(ScanSe)
12100	X06c	10-7-2011	1347	Mazielka. Sequence: 123456	AM		(tING)
12100.3	X06c	6-7-2011	0700	123456 but lower frequencies 563,593,625,660,698,740 in AM	AM	Wed	(ScanSe)
12101	X06c	6-7-2011	0913	123456	USB	Wed	(FMB)
12113	M42	25-7-2011	0959	Russian Gov/Intel.	CROWD-36		(Danix)
12115	M08a	14-7-2011	1400	5f cut nums: 56262 10351 73241	CW	Thu	(westli)
12130	M51	21-7-2011	0915	(i.p.)	MCW	Thu	(FMB)
12134	M08a	4-7-2011	1400	5f cut nums: 04631 30351 54711	CW	Mon	(westli)
12138	XPA2	19-7-2011	2140	00175 00089 11745 ... 47224	MFSK		(Danix)
12144.5	M42	28-7-2011	1415	Russian Gov/Intel.	CROWD-36		(GN2)
12155	S06s	14-7-2011	1200	426 876 End 29 00000á	AM		(GN2)
12155	S06s	14-7-2011	1200	425 876 9 29574 15425 19757 65426 54695 52212	AM		(HS2)
12155	S06s	7-7-2011	1200	425 876 9 29574 65773 876 9 00000	USB	Thu	(Spec)
12155	S06s	14-7-2011	1200	425 876 9 29574 15425 19757 65426 54695 52212 29473 32468 65773 876 9 00000	USB	Thu	(Spec)
12155	S06s	21-7-2011	1200	425 897 6 37020	USB	Thu	(SWL1409)
12155	S06s	28-7-2011	1200	425 897 6 37020	USB	Thu	(SWL1409)
12165	S06s	11-7-2011	1210	831 425 6 85558 44474 41352 52168 55268 75870 425 6 00000	USB	Mon	(Spec)
12165	S06s	18-7-2011	1210	831 907 5 08644 25457 907 5 00000	USB	Mon	(Spec)
12165	S06s	25-7-2011	1210	831 907 5 08644 28952 60267 75668 25455 907 5 00000	USB	Mon	(Spec)
12165	S06s	18-7-2011	1210	Fair. 831 831 831 907 907 5 5 08644	USB	Mon	(SWL1409)
12173	E07a	30-7-2011	0800	198 198 198 000	USB	Sat	(ScanSe)
12182	V07	15-5-2011	0520	YL, strong signal	USB		(token)

12213	XPA2	22-7-2011	2220	Message	MFSK		(Danix)
12216	XPA	22-7-2011	0021	polytone	MFSK	Fri	(AnUK)
12216	XPA	1-7-2011	2142	ip null message Weak	MFSK	Fri	(Spec)
12460	S06s	2-7-2011	1200	254 897 6 81726 35463 99108 35644 56567 28756	USB		(Danix)
12850	E17z	14-7-2011	0810	674 893 5 14514 63204 42369 32684 13446 893 5 00000	USB	Thu	(Spec)
12850	E17z	28-7-2011	0810	674 938 5 33158 04867 94485 47561 51588 938 5 00000	USB	Thu	(Spec)
12924	E011	14-7-2011	0830	649/00	USB		(HS2)
12924	E11	18-7-2011	0830	462/34 34692	USB	Mon	(Spec)
12935	S06s	12-7-2011	0810	352 917 6 15044	AM		(FN)
12935	S06s	12-7-2011	0810	352 917 6 15044 00969 22778 07438 44723 56895 917 6 00000	USB	Tue	(Spec)
12952	S06s	14-7-2011	0900	167 904 5 72963 34563 97242 19465 59813	AM		(HS2)
13362	XPA2	22-7-2011	2210	Message	MFSK		(Danix)
13380	V02a	12-7-2011	2000	SS/YL atencion:	AM	Tue	(westli)
13380	V02a	14-7-2011	2000	SS/YL atencion:	AM	Thu	(westli)
13380	V02a	19-7-2011	2000	SS/YL atencion:	AM	Tue	(westli)
13392	M12	6-7-2011	1526	5FGs very fast. Ends 1529 with 000 000	CW		(GN2)
13392	M12	6-7-2011	1526á	Just caught while tuning missed callup	CW		(GN2)
13392	M12	20-7-2011	1532á	5FGs	CW		(GN2)
13412	E07	6-7-2011	1920	845 1 604 30 26561 ... 49226 000 000	AM		(Danix)
13412	E07	13-7-2011	1920	hardly audible	AM		(FN)
13412	E07	13-7-2011	1920	845 0	AM	Wed	(HFD)
13412	E07	4-7-2011	1920	845 1 604 30 26561 49226 000 000	USB	Mon	(Spec)
13412	E07	6-7-2011	1920	845 1 604 30 26561 49226 000 000	USB	Wed	(Spec)
13412	E07	11-7-2011	1920	845 845 845 000	USB	Mon	(Spec)
13412	E07	13-7-2011	1920	845 845 845 000	USB	Wed	(Spec)
13412	E07	18-7-2011	1920	845 845 845 000	AM	Mon	(Spec)
13412	E07	25-7-2011	1920	845 845 845 000	AM	Mon	(Spec)
13412	E07	27-7-2011	1920	845 845 845 000	AM	Wed	(Spec)
13424	E11	14-7-2011	0645	517/00	USB		(HS2)
13424	E11	19-7-2011	0645	517/00	USB	Tue	(Spec)
13427	E11	13-7-2011	0900	534/00	USB	Wed	(HFD)
13427	E11	20-7-2011	0900	348/00	USB	Wed	(Spec)
13427	E11	25-7-2011	0900	348/00	USB	Mon	(Spec)
13468	E07	17-7-2011	1700	441 000	AM		(Danix)
13468	E07	17-7-2011	1700	441 1 631 79 75680 ... 72292 000 000	AM		(Danix)
13468	E07	13-7-2011	1700	441 1 718 62 23281	AM		(FN)
13468	E07	3-7-2011	1700	441 1-833/42=69195	AM	Sun	(HFD)
13468	E07	3-7-2011	1700	441 1 833 42 69195 84527 000 000	USB	Sun	(Spec)
13468	E07	13-7-2011	1700	441 1 718 62 23281 25942 000 000	USB	Wed	(Spec)
13468	E07	17-7-2011	1700	441 441 441 000	AM	Sun	(Spec)
13472	M12	18-7-2011	1320	944 1	CW	Mon	(HFD)
13482	X06	29-7-2011	1650	Mazielka. Sequence: 314265	AM		(Danix)
13510	X06	4-7-2011	1151	Mazielka. Sequence: 216435	AM		(PPA)
13527.7	MX	7-7-2011	1457	Beacon "D"	CW		(CK)
13527.8	MX	7-7-2011	1457	Beacon "P"	CW		(CK)
13528	MX	7-7-2011	1240	Beacon "C"	CW		(EW)
13528	MX	7-7-2011	1655	Beacon "C"	CW		(TJ)

13528	MX	18-7-2011	2131	Beacon "C"	CW	(TJ)
13528.1	MX	7-7-2011	1457	Beacon "A"	CW	(CK)
13528.4	MX	24-7-2011	1703	Beacon "M" Magadan	CW	(PPA)
13528.4	MX	30-7-2011	1413	M: Magadan	CW	(PPA)
13538	XPA2	19-7-2011	2120	00175 00089 11745 ... 47224	MFSK	(Danix)
13628	MX	7-7-2011	1457	Beacon "C"	CW	(CK)
13870	X06c	7-7-2011	0245	Mazielka	AM	(Dan)
13870	X06c	6-7-2011	2200á	Mazielka	AM	(GN2)
13870	X06c	12-7-2011	1650	Sequence: 123456	USB	Tue (Pres)
13926	M12	21-7-2011	1317	In progress; ends with 000 000	CW	(GN2)
13945	S06s	15-7-2011	1010	516 00000	AM	(HS2)
13972	M12	18-7-2011	1300	944 1	CW	Mon (HFD)
13972	M12	11-7-2011	1300	944 1 472 181 26512 04555 000 000	CW	Mon (Spec)
13979	X06	4-7-2011	1126	Mazielka. Sequence: 215346	AM	(HS2)
14373	S06s	12-7-2011	0800	352 917 6 15044	AM	(FN)
14373	S06s	12-7-2011	0800	352 917 6 15044 00969 22778 07438 44723 56895 917 6 00000	USB	Tue (Spec)
14385	S06	25-7-2011	2015	764 0	AM	Mon (HFD)
14420	S06s	15-7-2011	1020	516 00000	AM	(HS2)
14440	X06	28-7-2011	1525	Mazielka	AM	(GN2)
14476	XPA	7-7-2011	2103	Just ending transmission	MFSK	(GN2)
14482	M12	20-7-2011	1505	(i.p.)	MCW	Wed (FMB)
14535	S06s	7-7-2011	1210	425 876 9 29574 65773 876 9 00000	USB	Thu (Spec)
14535	S06s	14-7-2011	1210	425 876 9 29574 15425 19757 65426 54695 52212 29473 32468 65773 876 9 00000	USB	Thu (Spec)
14535	S06s	21-7-2011	1210	425 897 6 37020	USB	Thu (SWL1409)
14535	S06s	28-7-2011	1210	425 897 6 37020	USB	Thu (SWL1409)
14538	XPA2	19-7-2011	2100	00175 00089 11745 ... 47224	MFSK	(Danix)
14580	E06	8-7-2011	0500	679	AM	Fri (HFD)
14580	S06s	13-7-2011	1000	729 410 5 71625 89367 56710 92856 34545 410 5 00000	USB	Wed (Spec)
14580	S06s	20-7-2011	1000	729 854 6 18188 40455 55475 55274 83375 01142 854 6 00000	USB	Wed (Spec)
14580	S06s	27-7-2011	1000	729 854 6 18188 40455 55475 55274 83375 01142 854 6 00000	USB	Wed (Spec)
14580	S06s	6-7-2011	1000	ID471	USB	Wed (SWL1409)
14650	X06	13-7-2011	0956	Mazielka. Sequence: 215346	AM	(HS2)
14655	X06c	7-7-2011	0626	Mazielka. Sequence: 123456	AM	(PPA)
14664	M32	22-7-2011	0906	Russian Mil: "RDL RDL RDL 38194 39535 38194 etc	CW	(MPI)
14812	E07	6-7-2011	1900	845 1 604 30 26561 ... 49226 000 000	AM	(Danix)
14812	E07	13-7-2011	1900	845 845 845 000	AM	(FN)
14812	E07	13-7-2011	1900	845 0	AM	Wed (HFD)
14812	X06b	20-7-2011	1818	Mazielka. Sequence: 1--6--	AM	(MUK)
14812	E07	20-7-2011	1800	very weak	USB	Wed (OldDog)
14812	E07	4-7-2011	1900	845 1 604 30 26561 49226 000 000	USB	Mon (Spec)
14812	E07	6-7-2011	1900	845 1 604 30 26561 49226 000 000	USB	Wed (Spec)
14812	E07	11-7-2011	1900	845 845 845 000	USB	Mon (Spec)
14812	E07	13-7-2011	1900	845 845 845 000	USB	Wed (Spec)
14812	E07	18-7-2011	1900	845 845 845 000	AM	Mon (Spec)
14812	E07	25-7-2011	1900	845 845 845 000	AM	Mon (Spec)
14812	E07	27-7-2011	1900	845 845 845 000	AM	Wed (Spec)

14875	X06c	14-7-2011	2213	Mazielka. Sequence: 123456	AM		(GN2)
14875	X06c	12-7-2011	1940	[in progress]	USB	Tue	(Pres)
14875	X06c	12-7-2011	1940	Mazielka. Sequence: 123456 Long transmission	AM		(Pres)
14875	X06c	14-7-2011	2100	Sequence: 123456	AM	Thu	(Pres)
14931.5	M42	20-7-2011	1258	Russian Gov/Intel.	CROWD-36		(GN2)
14938	M42	7-7-2011	2130	Russian Gov/Intel.	CROWD-36		(GN2)
14944	X06	13-7-2011	1047	Mazielka. Sequence: 621543	AM		(HS2)
14970	X06	13-7-2011	0949	Mazielka. Sequence: 216354	AM		(HS2)
15765	X06c	12-7-2011	2104	Mazielka. Sequence: 123456	AM		(GN2)
16020	S06s	13-7-2011	1010	729 410 5 71625 89367 56710 92856 34545 410 5 00000	USB	Wed	(Spec)
16020	S06s	20-7-2011	1010	729 854 6 18188 40455 55475 55274 83375 01142 854 6 00000	USB	Wed	(Spec)
16020	S06s	27-7-2011	1010	729 854 6 18188 40455 55475 55274 83375 01142 854 6 00000	USB	Wed	(Spec)
16020	S06s	6-7-2011	1010	ID471	USB	Wed	(SWL1409)
16150.5	M42	22-7-2011	1309	Russian Gov/Intel.	CROWD-36		(GN2)
16166.5	M42	6-7-2011	1444	Russian Gov/Intel.	CROWD-36		(GN2)
16168.5	M42	20-7-2011	1307	Russian Gov/Intel.	CROWD-36		(YM)
16190	X06c	12-7-2011	2106	Mazielka. Sequence: 123456	AM		(GN2)
16331.7	MX	7-7-2011	1457	Beacon "D"	CW		(CK)
16332	MX	7-7-2011	1457	Beacon "C"	CW		(CK)
16332	MX	7-7-2011	1240	Beacon "C"	CW		(EW)
16332	MX	7-7-2011	1655	Beacon "C"	CW		(TJ)
16332.3	MX	30-6-2011	1420	Beacon "K"	CW		(GN2)
16335	E11	20-7-2011	1158	718/00	USB		(YM)
16530	S11a	11-7-2011	1015	475/00	USB	Mon	(Spec)
16530	S11a	25-7-2011	1015	475/00	USB	Mon	(Spec)
16780	E17z	14-7-2011	0800	674 893 5 14514 63204 42369 32684 13446 893 5 00000	USB	Thu	(Spec)
16780	E17z	28-7-2011	0800	674 938 5 33158 04867 94485 47561 51588 938 5 00000	USB	Thu	(Spec)
17000	X06c	14-7-2011	1951	Mazielka. Sequence: 123456	AM		(Danix)
17000	X06c	14-7-2011	1934	Mazielka. Sequence: 123456	AM		(HS2)
17000	X06c	14-7-2011	1943	Mazielka. Sequence: 123456	AM		(tING)
19879	M42	2-7-2011	1225	Russian Gov.	CROWD-36	Sat	(ScanSe)
19931	M42	20-7-2011	1258	Russian Gov/Intel.	CROWD-36		(GN2)
20047.7	MX	7-7-2011	1457	Beacon "D"	CW		(CK)

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AnUK	Anonymous, UK
CK	Costas, Southern Europe
Dan	Daniel
Dan-E	Daniel via Global Tuners Spain
Danix	Danix111, Gdynia, Poland
Danix-EST	Danix111 via UVB76 relay Estonia
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FMB	FMB, Germany
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